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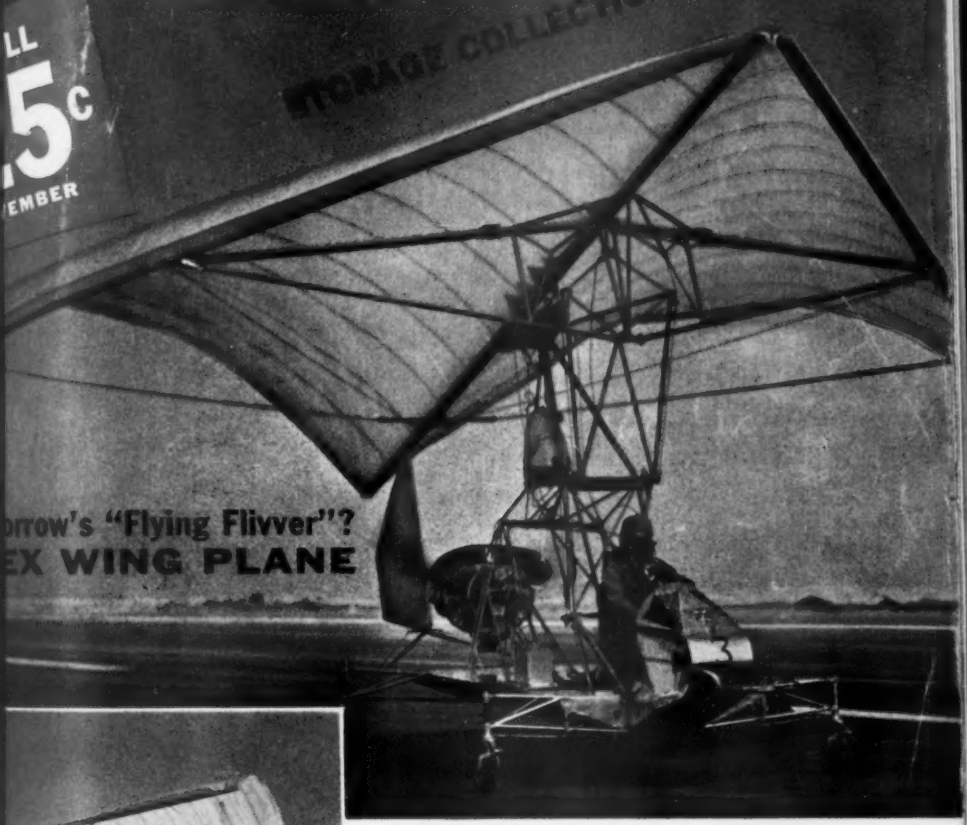

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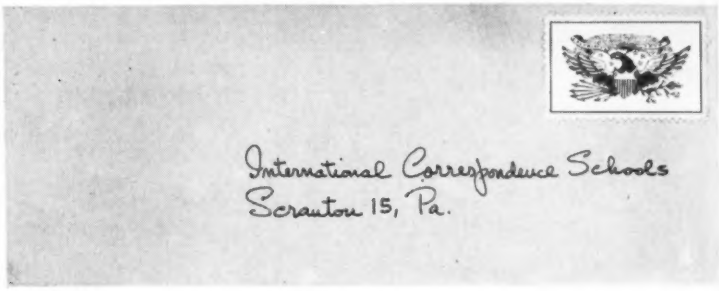

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NOVEMBER 1961 Volume 57, Number 11

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MECHANIX ILLUSTRATED is published monthly by Fawcett Publications, Inc., Fawcett Bldg., Greenwich, Conn.

ADDRESS ALL MAIL: Subscriptions, change of address, Form 3579 to Subscription Dept., Fawcett Bldg., Greenwich, Conn.; and all editorial and advertising to Fawcett Publications, Inc., 67 W. 44th St., New York 36, N. Y.

Second-class postage paid at Greenwich, Conn., and at additional mailing offices.

EDITORIAL OFFICES: 67 W. 44th St., New York 36, N. Y. ADVERTISING OFFICES: 67 W. 44th St., New York 36, N. Y.; 612 N. Michigan Ave., Chicago 11, Ill.; 1532 Guardian Bldg., Detroit 26, Mich.; 2978 Wilshire Blvd., Los Angeles 5, Calif.; 681 Market St., San Francisco 5, Calif.; 123 S. Broad St., Philadelphia 9, Pa.; Hale Printup & Associates, Langford Bldg., Miami 32, Fla. and 1401 Peachtree St., N.E., Atlanta 9, Ga.

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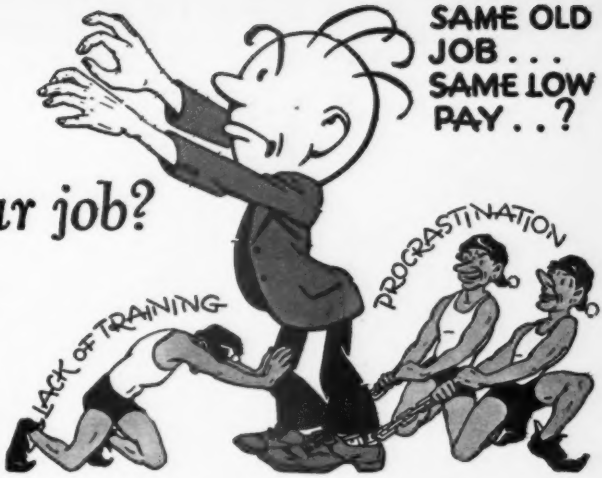

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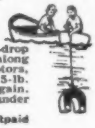

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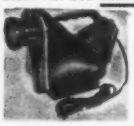

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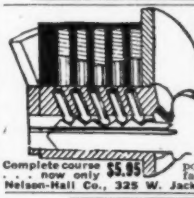

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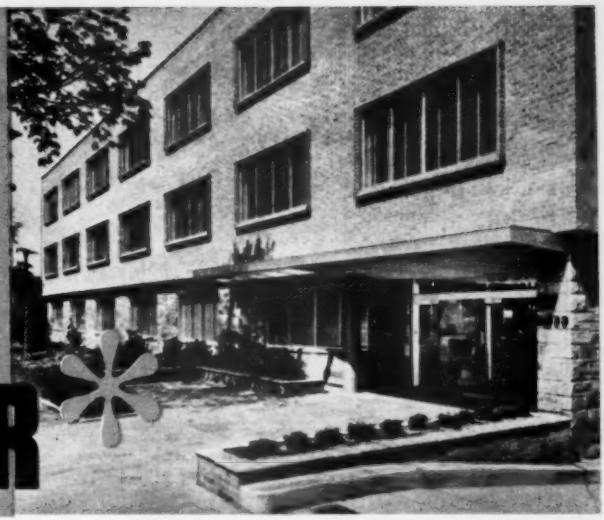

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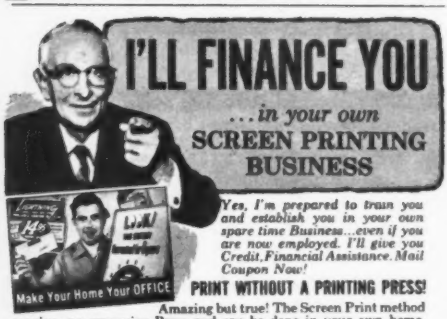

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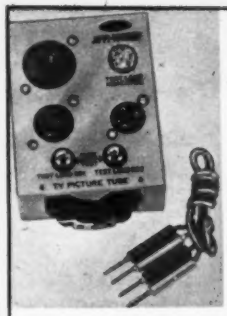

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By J. M. Smith *President, National Radio Institute*

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THE COMING OF THE AUTO created a multi-million dollar service industry, the auto repair business. Now the same thing is happening in the electrical appliance field. But with this important difference: anybody with a few simple tools can get started in appliance repair work. No big investment or expensive equipment is needed.

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A Few Examples of What I Mean

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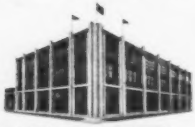

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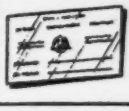

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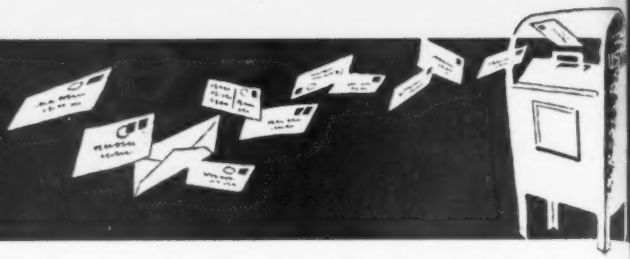


Address mail to: Letters Editor, MECHANIX ILLUSTRATED, 67 West 44th Street, New York 36, N. Y.

• *Convertible Sailor*

R. Ralls' idea of a battery-operated convertible top for boats (Inventions Wanted, Sept. MI) is swell as far as it goes. However, he neglected to follow it through. Just imagine—with one of those tops a fellow would never have to worry about running out of gas. If his motor conked out he could just raise the top halfway and use it as a sail (ha ha).

Pat Kinkerry
Portland, Ore.

These days, everybody's *a comedian.*

• *Draft Teenagers?*

Lester David knows what he's talking about (Should We Draft America's Teen-Agers?, Sept. MI). If his proposal of an American Teen-Age Corps comes to fruition I hope it will draw from the large pool of high school drop-outs, for they are the ones who will need the training most of all. Also, if the ATAC is good for the boys of America it would be equally good for the girls. So I think it should be open for girls as well as boys.

Evelyn Vanderhoof
High School Student
Brentwood, Md.

David's idea is completely out of place and insane as well as ridiculous and downright un-American sounding. The more I read this article the more red I see—and I've upset my ulcer enough from it now. We live in the best, finest and most progressive country in the world and this idea of taking even more of our freedoms away from us is "out to lunch." What does he want us to come to—a bunch of Hitler Youth Camps? Does he want us to live under a ritualistic, militant government? Are we to become an American Sparta? This type of militarism has no place in our American Way of Life.

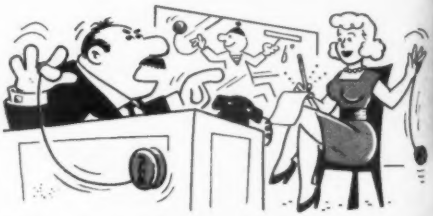
Gervase J. Hale, Jr.
Winslow, Arizona

The author states that his plan would offer teenagers new opportunities. But he failed to mention that these "opportunities" would be forced on them. However, were such a program conducted on a voluntary basis it would be a great addition to our society. As it stands, Mr. David's ATAC could greatly endanger our freedoms.

Mr. David implies that *all* teenagers are delinquents. I can say, from observation, that less than five per cent of the teenage population is delinquent. The rest of us are decent kids. In brief, 16- and 17-year-olds should have the freedom to choose whether they wish to join Mr. David's ATAC.

James S. Zehner
Pittsburgh, Pa.

• *Anti Yo-Yo*



Executive yo-yos! Ridiculous! (Shown in Sept. MI). I ask you: What kind of a company would permit their employees to play with yo-yos during business hours?

New York Executive
New York, N. Y.

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• *VW Owner Writes*

Regarding Fred Russell's article on the

[*Continued on page* 20]

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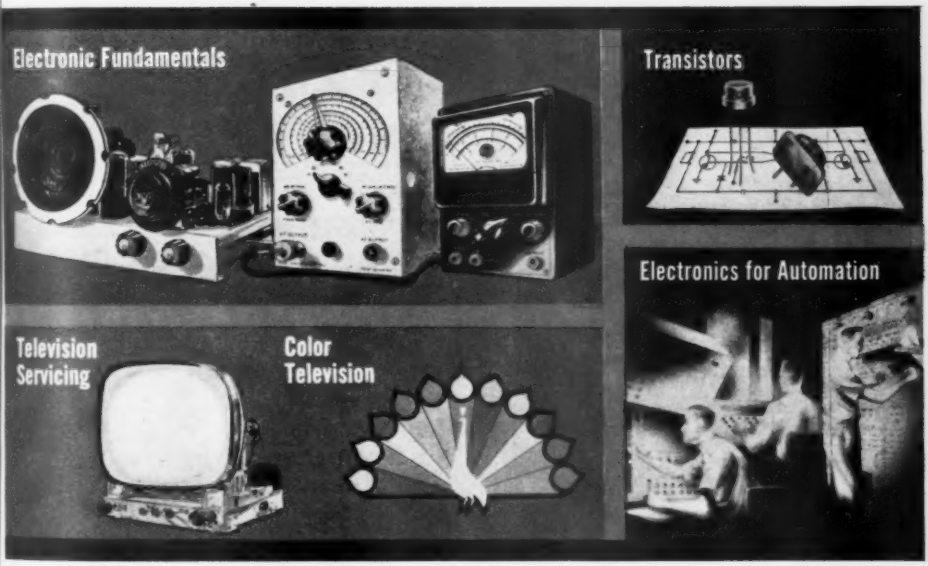

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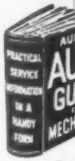

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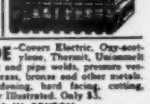

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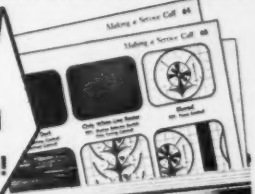

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Dear Editor

[*Continued from page* 14]

Volkswagen in the July MI (How To Take Care Of Your "Beetle"), I should just like to say that while it is true that the valve clearances, fan belt adjustment, etc. for the VW do require more frequent checking than is the case with some other cars, the inspection frequency is 3,000 miles rather than the 300-mile interval mentioned by Mr. Russell.

Carl H. Hubachek
East Haven, Conn.

Reader Hubachek is correct.

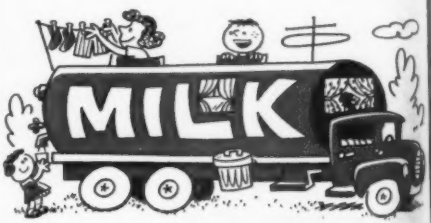
• *Profitable Pigs*

Regarding the article, 6 Secrets Of Making Money (June MI), I've got rule No. 1 down pat. Here's my idea: in many areas of Indonesia a hermaphrodite pig is worth a king's ransom. Why . . . I don't know, but they are worth several women each in terms of exchange. Many local princelings are very wealthy and would pay a good price in precious stones for such pigs. They are raised as part of the family and esteemed as pets. The synthetic hormone Norlutin will produce a high number of hermaphrodites in litters of pigs. This is the chance of lifetime for some enterprising fellow.

W. Carney
Bronx, N. Y.

Indonesia, here we come.

• *Truck Abodes*



Found your August cover story fascinating (Now You Can Live On Wheels!). Didn't know there were so darn many motor homes on the market. Beat trailers all hollow. One drawback, though: too darn expensive. Six/seven thousand dollars is a lot of money. Suggest better idea is buying a secondhand truck, convert it yourself. Save money, fun to boot. Any kind of used truck would do, too.

L. T. Proudan
Austin, Texas

Yup.

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By Joseph H. Kraus

INVENTION CLINIC

In this column each month Mr. Kraus will answer as many letters as space permits on those subjects he feels to be of widest general interest. Time does not allow him to reply to any letters except those printed here. Address your questions to the Invention Clinic, *Mechanix Illustrated*, 67 West 44 St., New York 36, N. Y.

Jar Lid

J. C. Truax of Jerome, Pa., sends a sample of a jar lid. A search reveals that there is nothing like it. A tap along the edge frees the lid. Does it have any merit?

I see no basis for your reasoning that this lid can be opened more easily than the conventional lid. The seal is between the top of the glass jar and the inside bottom of the screw cap. Why not make a few samples and compare them with the regular types? Be sure to apply the same tightening pressures. Seal in heavy solutions of sugar, vacuum pack, and set aside for several weeks before testing.

Cold Cream Soap

LeRoy Dovin of Santa Barbara, Calif., has a lot of ideas for new soap products—such as soap combined with cold cream. But how can ideas like this be marketed? Are companies interested in things like this?

If you were connected with a soap manufacturing business, you might be able to put across the cold cream-soap combination with extensive advertising. Simple combinations of this kind are not patentable but a specialized technique for developing the mixture can be patented. Capitalizing on combinations of this type will depend chiefly on your salesmanship.

Fire Alarm

J. H. Tonn of Sacramento, Calif., says that a friend let him in on his secret invention—a battery-operated fire alarm which will sound whenever the temperature gets too high. Would home owners be interested in a device of this type?

As long ago as 1916 you could purchase a number of different devices to do the same thing. Maybe your friend has something better than anything previously produced. A patent search will determine patentability. A price of $5 per item will meet considerable market resistance. A device for this purpose could be made to sell for $1.

Drum Toy

Gerald M. Karkalla of Pittsburgh, Pa., says he has patented a hand-cranked drum toy that plays a popular tune. Should he hire a broker to try to sell the invention?

If you hire a broker, make sure he has had considerable success in selling musical toys. You might better try the Small Business Administration, Washington 25, D. C. It does provide help in this direction and at no charge to the inventor.

Gate-Latching Bar

Floyd C. Carver of St. Clair Shores, Mich., has designed a simple gate-latching bar which cannot be opened by small children but may be opened easily by adults. Does this merit a patent?

Right now this is a makeshift. I feel sure that some adults would get their fingers pinched or punctured by the spring. Next,

[*Continued on page 29*]

INVENTOR'S TIP OF THE MONTH

Some day some bright character will produce a completely safe electrically-driven brush for washing the car or cleaning windows and building exteriors. The water-driven types leave much to be desired.

Not everyone does as well, but T. N. Cody, who started a business of his own, reports...

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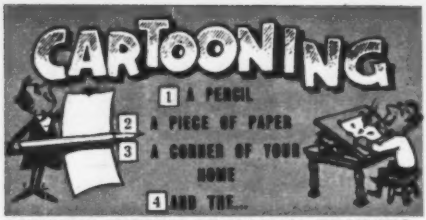

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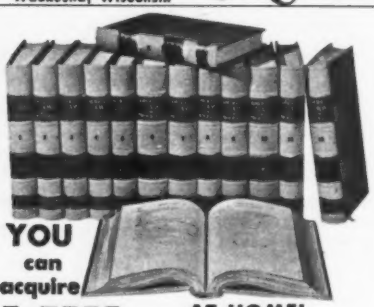

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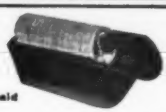

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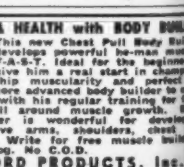

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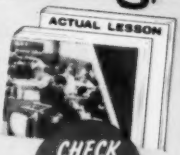

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Invention Clinic

[*Continued from page* 22]

the present attachment to the fence rail should be made so that anyone can install the latch. Third, the device should be self-latching. All of these modifications are possible without adding too much to the cost. I recommend that you study this some more and redesign it.

Clothes Sprinkler

Mrs. Carole Gray of Fort Lauderdale, Fla., asks about a device for sprinkling clothes before ironing. She would like to get started but thinks the device is too simple to patent.

Your device has been on the market for spraying garments with moth-proofing solutions, or to spray flowers, or to spray windows for cleaning, for many years. I know of no way that you could make money from it.

Mixing Can—Novelty Hat

Harvey L. Christ of Metamora, Ill., suggests a system for mixing a pre-determined amount of oil for use on two-cycle gasoline engines. Also a design for a hat which children and college students might like to wear. Will these sell?

A further study might convert your gas can idea into something patentable. It might be easier to sell a separate cap—but here you run into difficulty because there are so many sizes of spouts. You should look into this with some caution. Some of the new two-cycle engines do not use the oil-gas mixture.

Hats like yours are worn in some foreign lands. They have never been popular here but fads are unpredictable. Your guess is as good as mine.

Gas-Oil Mixing Nozzle

Lloyd G. Simmons of Butte, Montana, sends diagrams for a gas-oil mixing nozzle which will add a measured quantity of oil to gasoline—especially for use in two-cycle engines. A search suggests patent possibilities. How can he get backing?

This is workable but rather messy when it comes to filling and handling. As it is now designed the device is topheavy but this could be improved. Also you should consider the possibility of using a can of oil directly. And, as I said in my reply above, you must consider that some new two-cycle engines do not use a gas-oil mixture. I know of no way you could gain financial assistance for a patent in this field unless it be through your friends.

[*Continued on page* 56]

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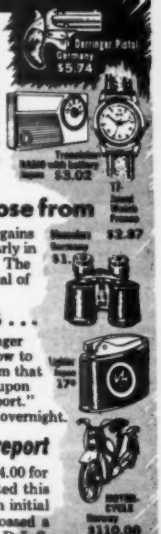

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IF YOU'RE interested in making money in selling, see the hundreds of exceptional opportunities in Salesmen's Opportunity Magazine. Send name for your copy, absolutely free. Tell us what you're selling now. Opportunity, 848 N. Dearborn, Dept. 19, Chicago 10, Illinois.

GET NEW Shirt Outfit Free! Make $90 weekly on 5 average orders a day. Famous quality made-to-measure dress and sport shirts, $4.50 up, sell fast to all men. No experience needed. Full or part time. Write: Packard Shirt Co., Dept. 421, Terre Haute, Ind.

MAKE EXTRA Money—Big Cash Commissions plus premiums for you and your customers. Sell Advertising Book Matches—sensational new Tenorama, Glamour Girls, Hillbillies; dozens others. All sizes—Quick daily sales; big repeat business. Free Master Kit makes selling easy—no experience necessary. Superior Match, Dept. F1161, 7530 Greenwood, Chicago 19.

MAKE BIG Money taking orders for Stark Dwarf Fruit Trees. Everybody can now grow Giant Size Apples, Peaches, Pears in their yards. Also Shade Trees, Shrubs, Vines, Roses, etc. Outfit Free. Stark Bro's, Desk 30152, Louisiana, Missouri.

SEEKING NEW Products? Get my outfit 47 money-making specialties. Latest conveniences for home, car. Send no money. Just your name. KRISTEE 50, Akron, Ohio.

MAKE UP to $50.00 a day soliciting delinquent accounts. Terrific commissions. Write today. General Finance, 304W Pickwick Bldg., Kansas City 6, Mo.

EARN BIG Commission Full Or Part Time. Build profitable business of your own selling America's largest line low priced business printing. 360 page catalog samples hundred of items used daily by business people. Imprinted ball pens low as $8.95 for 100. Big full color catalog low priced advertising specialties included. Free sales kit. National Press, Dept. 7, North Chicago, Illinois.

71,000 ADVERTISING NOVELTIES. Fifteen samples—$1.00. Adelphia Specialty, 212 Yellowstone, Plymouth Meeting, Pa.

WILL YOU wear new suits, sport coats without one penny cost and agree to show them to friends? You can make up to $40.00 in a day even in spare time without canvassing. J. C. Field & Son, Inc., Dept. F-1826, Harrison & Throop Sts., Chicago 7, Ill.

SENSATIONAL NEW longer-burning Light Bulb. Amazing Free Replacement Guarantee—never again buy light bulbs. No competition. Multi-million dollar market yours alone. Make small fortune even spare time. Incredibly quick sales. Free sales kit. Merlite (Bulb Div.), 114 E. 32nd, Dept. C-74L, New York 16.

START MAKING money now. Every business a prospect. Solicit delinquent accounts. Instructions free. Top commissions. National Credit, 304B Pickwick Bldg., Kansas City 6, Mo.

• • • BUSINESS OPPORTUNITIES

WANTED. FISHING Tackle Items for national distribution, exclusive manufacturing and sales. Our increasing sales force can handle 2 or 3 additional items for wholesale and retail distribution. Also want good mailorder items for established customers. Send full details and samples to: AXELSON FISHING TACKLE MFG. CO., 1559J Placentia, Newport Beach, Calif.

$1.00 BRINGS YOU $18.00 Spare-Full Time Home-Business opportunity! Amazing new velvet-spray transforms old $$$$$ lamps, TV-radios, figurines, furniture—anything—into $$$$$ products! Free samples, 50 Business Opportunities Booklet. Send No Money. Flok-Kraft NR, Los Angeles 61.

WANT TO Make Big Money At Home? $10.00 profit in an hour possible with Invisible Mending. Make tears, holes disappear from clothing, fabrics. Steady year-round demand from cleaners, laundries, homes. Details Free. Fabricon, 6254 Broadway, Chicago 40, Ill.

BRONZE BABY Shoes: Instructions, Equipment and Mountings for genuine Electroplating Process. Largest Supplier of all Plating Equipment, Supplies. Free Catalog. Hollywood Bronze Supply, Dept. B-5, 1624 East First, Los Angeles 33, Calif.

EXCEPTIONALLY PROFITABLE opportunity in Tape Recording! Free Information. Baron's, Lynden, Washington.

FREE: "HOW to Win Contests." ConteStar, Box 51-MCB, Des Plaines, Ill.

VENDING MACHINES—No selling. Operate a route of coin machines and earn amazing profits. 32-page catalog Free! Parkway Machine Corporation, Dept. 2, 715 Ensor St., Baltimore 2, Md.

IMMEDIATE PROFITS with no capital or experience. Take orders for all magazine subscriptions. Friends and neighbors are your prospects. Write now for complete, free kit. McGregor Magazine Agency, Dept. 212B, Mount Morris, Illinois.

PACKAGE AT home for profit! We supply everything. No selling. Free home business details. HPC 2212RB Jesse Street, Los Angeles 23, California.

IMPORT-EXPORT OPPORTUNITY, profitable, world-wide mail-order bu iness from home without capital; or travel abroad. Established world trader ships instructions for no-risk examination. Experience unnecessary. Free details. Mellinger, Dept. T75B, 1554 South Sepulveda, Los Angeles 25, Calif.

11,000 NEW PROSPECTS Daily. Baby record books, shoes, albums. Sell mail-order. Use our literature. Write: No-Co-Ro, Capitola 16, Calif.

MAIL-ORDER HOME Business. Get Free Copy, "Make Money in Mail-Order." Mailco, 1554 South Sepulveda, Dept. T75B, Los Angeles 25, Calif.

FREE PICTURE Folder, "How to Make $3,000 Yearly, Sparetime, Backyard, Raising Earthworms!" Oakhaven-45, Cedar Hill, Texas.

$3.00 HOUR—HOME, sparetime, assembling pump lamps. Easy. Free Details. Ougor, Caldwell, Arkansas.

BUY DIRECT from factories. Appliances, cameras, watches! Free details! Cam Co., 436 MI Bloomfield Ave., Verona, N. J.

FREE REPORT: "609 Unusual, Successful Businesses." Box 1001-MIW, Evanston, Illinois.

$250.00 WEEK SPARE time profit possible. Earn at home with new fascinating Printing method. $5 starts you—send no money now. Free Confidential Facts and Valuable sample. Screen-Print, NR, Los Angeles 61.

EARN $3 HOURLY, spare, full time, looking up information at your local library. Operate research bureau. Details Free. Service, 81-A Knickerbocker Station, New York City.

SHARPEN SAWS, tools, knives, shears, scissors, clippers, twist drills, surgical instruments, etc. Manual furnished. Treyco, N. Tonawanda 6, N. Y.

LEARN PROFESSIONAL TV Servicing in one Week! Fabulous new simplified system. No big expense. No studying. No tools or equipment. Spare, full time. Own your own big profit business! Save Amazing but true! Free Sample Lesson, Illustrated "How To" Booklet. Write, TV Systems, Dept. EC-15B, 1038 So. La-Brea, Los Angeles 19, Calif.

LEARN SEWING Machine Repairing. To $125 weekly. Sparetime. Supplies. Add to present business. Write today! Taylor Service, Box 2126, San Bernardino, Calif.

INCOME TAX Consultant. Graduates earn $1,000-$3,000 every tax season preparing returns evenings. State approved. Union Institute, Lakewood E5, N. J.

BAKE NEW Greaseless Doughnuts In Kitchen. Sell stores. Free recipes. Irving, 3605 South 15th, Minneapolis 7, Minnesota.

WORLD'S LARGEST wholesale supply. Buy from 679 American, European, Japanese wholesalers. Tailormade suits from Hongkong. 123 Dropship catalogs. Rock-bottom prices. Free details. International Buyers, 216-M12 Jackson, Chicago 6, Illinois.

SHARPEN SAWS and Lawnmowers the profitable way. Send for free literature. Max Manufacturing Company, 138 Stockton Avenue, San Jose 26, California.

LEARN WATCH Cleaning, Repairing, Illustrated. Excellent Earnings. Kester, Dackerville, Michigan.

OPPORTUNITY TO earn $15,000-$30,000 annually. Franchise protected. Granted on $12,500 basis. Live at home. No merchandise to buy. Selfemployed. One of most exclusive and noncompetitive Businesses in United States and Canada. Send for free explanatory booklet. Harrell & Company, Box 8-F, Louisville, Ill.

PIANO TUNING learned at home quickly. Tremendous field! Musical knowledge unnecessary. Be independent! Information free. Empire School of Piano Tuning, Champaign, Ill. (Founded 1935).

$70.00 WEEKLY — HOME, spare time. Simplified Mail bookkeeping. Immediate income—easy. Auditax, 3474IE, Los Angeles 34.

COLORGLAZED CONCRETE pottery made without molds. Patented method. Cemetery products, novelties, files. Basement leaksealing. Moneymaking projects. Booklets, details free. Men only. National Pottery, Grand Rapids, Minnesota.

FREE WHOLESALE Directory lists—750,000 items. Dean's, Box 40-MX, Elberton, Georgia.

MARKETS EVERYWHERE. Make Artistic concrete birdbaths, pottery. Best coloring. Home workshop. Hundred varieties. Free pictures. Hollywood Cementcraft, 8527-E Wonderland, Hollywood 46, California.

LIQUID MOLDING Rubber, Free Sample Shellcraft Supplies. Chaney, 1907-B East Road, Jacksonville 16, Fla.

CASH FROM Sawdust, Tin-Cans, Newspapers. Over 200 methods. Instructions $1.00. Charles Company, 42-EPW, Norwood, Ohio.

FRANCHISES MAKE Profits! Have your own prosperous franchise business. Opportunities nationwide for distributors, dealers, agency operators. Write today. National Franchise Reports, MI-528, 333 North Michigan, Chicago 1.

CANDLE MAKING & Decorating business opportunity. Field wide open. Learn molding, dipping, decorating. Expand to colorful candle shop later. Write for Free Facts on Home Instruction Method. Candle Institute, Dept. X-554, Fallbrook, Calif.

INVISIBLE REWEAVING: $5-$10 per job possible reweaving burns, tears, mothholes. Spare-full time. Free details. Skil-Weave, Dept. RC-369, 335 W. Madison, Chicago 6, Illinois.

BIG MONEY—Operate own Fix-it Shop. Service household appliances, motors, mowers, saws, skates, etc. Free Book. Christy Trades School, A-806, 3214 Lawrence, Chicago 25.

FREE BOOK "711 Bizarre, Successful Ventures." Retired at 47, simple home plan! Haylings-MM4, Carlsbad, Calif.

YOUR OWN Baby shoe bronzing business. Instructions, equipment, supplies. Metalizing, glassing, Pearl-Kote. We finance. Free booklet. Dept. D, Box 5036, Inglewood, Calif.

MINK RAISING information free. Complete. Lake Superior Mink Farm, Superior, E. E., Wisconsin.

LEARN, STUDY, Investigate Beginners. The best mail order book of all based on United States Dept. of Commerce studies. Details Free. S. Davenport, 610 East 99 St., Inglewood, Calif.

BIG MONEY Raising Fishworms And Crickets. We teach you how to raise and where to sell. Free Literature. Carter Farm-60, Plains, Georgia.

OPERATE RESTAURANT Or Diner. Free Booklet reveals plan. Write School of Restaurant Business, Dept. RMC-7210, 335 W. Madison, Chicago 6, Illinois.

SIMPLE, PLEASANT Mailorder can net $12,000 year. Write: Simon, Box 87-M4, Pelham, N. Y.

WANTED: HOME producers, to be subcontractors: Cast plastic products for manufacturers in our Clearing House Service. Thousands of easily-made items required. Cash in at home, without previous experience. Plastic Service Associates, Dept. 11-MI, East Boston 28, Mass.

MAKE $46 FROM Square Foot Plywood; Jigsaw necessary. Free Details. Woodet, Bridgewater, Mass.

• • • HELP WANTED

FOREIGN EMPLOYMENT Information. Work overseas. Travel, adventure. Europe, Africa, Asia, Canada, Alaska. Earn as much as $1,600 monthly. Construction men, truck drivers, clerks, teachers, professionals, etc. Fabulous opportunities. Most complete information, application forms, etc. Sent by return mail same day received. Send $2.00 to Dept. M, Foreign Bureau, P. O. Box 512, New Orleans, Louisiana.

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FREE INFORMATION — USA Overseas Jobs, High Pay. Transportation. Futures, Dept. L, 215 West 34th Street, New York City 1.

FOREIGN JOBS—Latin America, Alaska, Canada, up to $1500 monthly. Up-to-date 1961 Foreign Service Directory gives complete information; hot list of firms hiring for Military and Civilian Construction, Aircraft, Oil, Exporters-Importers, Mining. How-When-Where to apply. 13th successful year. $1.00. Global Reports, P. O. Box 5201, MI, Inglewood, Calif.

MAKE EXTRA Money selling advertising matchbooks. Free catalog and sales outfit. Matchcorp, Dept. MI-111, Chicago 32.

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$50.00 IN YOUR mailbox every day. Sensational home mailorder business. Cameras $2.35; watches $2.60; radios $1.93. Hundreds of fabulous items. 500% profits. What, where, how to buy and sell. Thousands now doing it. 128 pages loaded with complete information sent immediately. Satisfaction absolutely guaranteed. Send $2.00 to: Impex-G, 714 Howard Avenue, New Orleans 12, Louisiana.

MAKE $5,000 YEARLY sparetime raising mink, chinchillas, nutria, etc. Free booklet reveals proved plans. Write: Furs, 588 Mt. Pleasant Road, Toronto 3, Canada.

$10.00 PROFIT IN An Hour possible with the "Magic Wonder Method" of Invisible Reweaving. Ideal home business, year round demand. Free details. Invisible Reweaving Industries, 8411 La Mesa Blvd., Dept. M, La Mesa, Calif.

MI Classified Advertisements

EARN $240.00 A Month at home, spare time, doing only two $5.00 Invisible Mending jobs a day. Big money paid for service that makes cuts, tears, disappear from fabrics. Steady demand. Details free. Fabricon, 6254 Broadway, Chicago 40, Ill.

LEARN PLASTICS fabrication for extra income. Low cost home training now available. Write for free booklet. Interstate Training Service, Dept. D-4, Portland 12, Oregon.

SECOND INCOME from oil can end your toil! Free book and oilfield maps! National Petroleum, Pan American Building-MI, Miami 32, Florida.

VENDING MACHINES—No selling. Operate a route of coin machines and earn amazing profits. 32-page catalog Free! Parkway Machine Corporation, Dept. 15, 715 Ensor St., Baltimore 2, Md.

MAKE EXTRA Money—Big Cash Commissions plus premiums for you and your customers. Sell Advertising Book Matches—sensational new Tenorama, Glamour Girls, Hillbillies; dozens others. All sizes—Quick daily sales; big repeat business. Free Master Kit makes selling easy—no experience necessary. Superior Match, Dept. FX-1161, 7530 Greenwood, Chicago 19.

START YOUR Own Business On Credit. Your own boss. 1344 Dealers sold $5,000 to $25,500 in 1960. We supply stocks, equipment on credit. 200 home necessities. Sales experience unnecessary. Pleasant, profitable business backed by world-wide industry. Write Kawleigh's, Dept. K-U-MOM, Freeport, Ill.

$25-$50 WEEKLY POSSIBLE, re-writing news items, Jokes, Poems, Recipes for publishers. Some worth $10 each. Details Free. Service, 81-B, Knickerbocker Station, New York City.

EASY TO start Rubber Stamp business at home in spare time. Make up to $9.80 an hour without experience. Facts Free. Write Roberts, 1512 Jarvis, Room CR-4-L, Chicago 26.

DETECTIVES—EXCELLENT Opportunities. Experience unnecessary. Detective Particulars free. Write, George Wagoner, 125-J West 86th, New York 24.

END MONEY Worries. Bake new greaseless doughnuts in kitchen. Half profit. Sell stores. Free recipes. Ingram, 3605 South 15th, Minneapolis 7, Minnesota.

BUSINESS OF your own. Earning potential as high as $40,000 annually. Issued on $12,500 base. No merchandise to buy. Send for free explanatory booklet. Harrell & Company, Box 8-FF, Louisville, Ill.

$50,000 YEARLY POSSIBLE. Distribute sales literature your territory. Write AFJA, Box 33-E, Southfield, Michigan.

GETTING DOLLARS In Your Mail. Send 10¢ for eye-opening literature. Donovan, 79-M, Greenbelt, Levittown, New York.

BECOME INDEPENDENT with your own franchise business. Thousands earning handsome incomes. Request interesting facts today. National Franchise Reports, MX-528, 333 North Michigan, Chicago 1.

SIMPLE, PLEASANT Mailorder nets $12,000 year. Write: Simon, Box 87-MC-1, Pelham, N. Y.

MEN!—WOMEN! Make money raising bait for us at home! Easy! Guaranteed Market! We buy your crop! Details Free. Red Wigglers, Warsaw 8, Indiana.

OPERATE SELF-SERVICE Earring Rack Route. No Selling. 6 months trial money back guarantee. Full Particulars Free. Two pair earring samples for $1.00. LARCO, Box 1242-MI, Harlingen, Texas.

GOOD PROFITS. Clip articles for plastic laminating. Details Free. Plastiperm, Dept. 15, 156 Elm, Cambridge 40, Mass.

ASSEMBLE OUR artificial lures at home. Easy, Profitable. Write, Lures, Lake Village 7, Arkansas.

MEN-WOMEN! START Money-Making Plastic Laminating Business at home in spare time. Material that costs 11¢ brings back $2.58. No canvassing or selling but mail orders bring in $20 a day. Write for full particulars Free. Rush name on postcard to Warner, Room CL-4-L, 1512 Jarvis, Chicago 26, Ill.

WANT A Raise? Better Job? Promotion? Short-cut help, Free. Webster House, 2038-M Mockingbird Road, Columbia, South Carolina.

PUZZLE CONTESTS! Cash Prizes! Details Free! Spence, Box 11569, St. Petersburg, Fla.

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INVESTIGATE AUTO Accidents — Earn $750 to $1,000 monthly. More investigators urgently needed. Car furnished; business expenses paid. No college education necessary. No selling of any kind. Pick your own job locality. Meet interesting, important people. We train you at home in spare time. You keep present job until ready to switch. Write for Free Booklet. No obligation. Liberty School, Dept. C-109, Libertyville, Illinois.

$5,000 FROM HALF Acre growing Ginseng, crop bought. Particulars 10c. Associated Growers, Sperling, Manitoba.

FREE PICTURE Folder, "How to Make $3,000 Yearly, Sparetime, Backyard, Raising Earthworms!" Oakhaven-3, Cedar Hill, Texas.

VENDING MACHINES—No selling. Operate a route of coin machines and earn amazing profits. 32-page catalog Free! Parkway Machine Corporation, Dept. 16, 715 Ensor St., Baltimore 2, Md.

DETECTIVES — MAKE Secret Investigations. Interesting occupation. Write, George Wagoner, 125-J West 86th, New York 24.

AUCTIONEERING — RESIDENT and Home Study Courses. Diploma granted. Auction School, Ft. Smith, Ark.

INVESTIGATE ACCIDENTS. Earn $750 to $1,000 monthly. Men urgently needed. Car furnished; business expenses paid. No selling. No college education necessary. Pick own job location. Investigate full time. Or earn $6.44 hour spare time. Write for Free Information. No obligation. Universal Schools, CM-11, 6801 Hillcrest, Dallas 5, Texas.

SHARPEN-SCISSORS, PINKERS, Inexpensive outfit. Clipper sharpener. Blackhawk, Sheldahl 6, Iowa.

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JEEPS—$223.83, typewriters—$7.15, boats $7.58, cars—$38.53, tires—$1.33, radios—$2.45, televisions, guns, cameras, watches, recorders. Typical surplus prices. Buy direct. List of depots, procedure, full details only $1.00. N. Y. Enterprises, International Airport, Box 402-H22, Jamaica 30, New York.

U. S. GOVERNMENT Surplus — Jeeps $264.00; radios $2.53; guns; typewriters; cameras; tools; thousands of items. Fabulously low surplus prices. Complete information sent immediately. Send $1.00 to Surplus, Box 512-G, New Orleans 12, Louisiana.

JEEPS $278, AIRPLANES $159, Boats $7.8. Generators $2.68, Typewriters $8.79 and typical government surplus sale prices. Buy 10,001 items wholesale, direct. Full details, 627 locations and procedure only $1.00. Surplus, Box 789-C17, York, Penna.

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FREE! NAME Brands Catalog! Your own high profit business. Sell Name Brands, full or part time. No inventory—no investment. More than 2000 Name Brand items; lowest wholesale prices. Watches, jewelry, cameras, hi-fi, stereo, radios, phonos., appliances, housewares, hardware, power tools, luggage, musical instruments, garden equipment, sporting goods, toys, many others. 8 Floors of Name Brands. Million dollar inventory. Orders shipped complete within 24 hours. Send for Free beautifully illustrated catalog Now! Separate wholesale price list. H. B. Davis Corp., Dept. MI, 145 West 15 St., New York 16, N. Y.

LARGEST WHOLESALE supply in U. S. Free catalogs. Furniture, clothing, appliances, housewares, automobiles and accessories, farm equipment, tools, hobby supplies, new products, imports. Free details. Associated Wholesalers, Box 108M-2, Lincoln 1, Nebraska.

BUY BELOW Wholesale! Thousands of Nationally advertised products. Drugs, Clothing, Housewares, Cameras, Jewelry, Hardware, Sporting Goods, etc. Postcard brings Price List showing actual Factory Cost. Buy-Rite, 310 Main, Bennington 1, Vermont.

FREE, AMAZING new book of money opportunities and mail order bargains. Write today! Popular Shopping Guide, Dept. P. O. Box 1123, Chicago 80, Illinois.

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NEW DELUXE Multicolor below wholesale catalog, automobile catalog, and others. Housewares, appliances, refrigerators, freezers, washers, dryers, television, radios, furniture, clothing, luggage, binoculars, phonographs, recorders, cameras, projectors, tools, typewriters, watches, jewelry. Name brands. Huge discounts to 70%. Postcard: Selbyco, Decatur 17, Illinois.

2,000 PAGES WHOLESALE Catalogs. Write: Mosaser, Box 47-C, Newark, Ohio.

100,000 PRODUCTS WHOLESALE! Terrific Bargains! United Wholesalers, 1265-X Broadway, New York 1, N. Y.

ELECTRIC GUITARS, Amplifiers, wholesale, free catalog. Carvin MIW, Covina, Calif.

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LADIES: EARN up to $2.00 hour sewing babywear! No house selling! Send postcard to Cuties, Warsaw 58, Indiana.

HOME TYPING: $65 week possible! Details, $1. Simon, 709 Webster, New Rochelle MI-10, N. Y.

EARN A good income typing at home! Detailed information $1. Refundable. Ryco Service, 210-C Fifth Ave., Suite 1102, New York 10, N. Y.

LEARN EXPERT Cake Decorating, Candy Making. Free Details on Home Instruction Method. Candy & Cake, Dept. D-70, Fallbrook, California.

LEARN CANDLE Making—Decorating at home. Send for Free Facts on Famous Home Study Course. Candle, Dept. X-553, Fallbrook, Calif.

• • • CHEMICALS & SUPPLIES

EXCITING EXPERIMENTS Booklet And Catalogue—25¢. Hagenow Laboratories, Manitowoc, Wisconsin.

232 PAGE CATALOG $2.00 Laboratory Materials, 7319 Vincennes, Chicago, Ill.

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DIRECTORY REPORTS. Construction, aviation, shipping, oilfields, government, manufacturing, trucking, etc. Foreign-Stateside. Helpful information plus job-getting tips on preparing application letters. Unconditional money-back guarantee of satisfaction. Act Today. Only $2.00. ($2.25 Airmail) (C.O.D.'s Accepted) Research Services, Meramec Building, St. Louis 5-MI, Missouri.

FOREIGN EMPLOYMENT. Construction, other work projects. If interested in overseas work, good pay, extras, write: Foreign Service Bureau, Dept. MI, Bradenton Beach, Florida.

CHOICE U. S. & Overseas Jobs. All Trades. Firms, Addresses, Hiring Procedures, Pay Scales, Benefits. For info. write: World Wide, Dept. F11, 155 N. Franklin St., Hempstead, N. Y.

SELECT U. S. and Overseas Jobs. Firms—salaries—benefits—addresses—procedures supplied. Write for Free information: International Occupations, N. Y. International Airport, P. O. Box 100-B1, New York City.

JAPAN! Exotic Orient. Many hi-paying jobs available. Complete, detailed reports, $2.00. Japan International, Box 1181-D, Newport Beach, California.

HIGH PAYING foreign jobs. Far East, Europe, South America. Jobs on ships and civil service. For Information, write to International Employment, P.O. Box 115, Boston 27, Mass.

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EXCLUSIVE MANUFACTURING Formulas and Processes. List Free. Moon, Martville, N. Y.

FORMULAS. ALL Kinds. Amazing Big Catalog 10¢. Kemistry, Park Ridge, Illinois.

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EXCITING ADVENTURE locating hidden loot, treasure, relics, etc., with powerful, electronic M-Scope locator. Lightweight. Guaranteed. From $59.50. Easy terms. Send for Free booklet, interesting customer reports. Fisher Research, Dept. C-10, Palo Alto, Calif.

"BURIED TREASURE And Lost Mines" by Treasure Hunter Frank L. Fish. 68 pages, bonafide Treasure locations, ghost towns and old mines. $1.50 Post Paid. Amador Trading Post Publishing Co., 14728 Peyton Drive, Chino, Calif.

TRANSISTOR TREASURE Detectors, underwater detectors. Many models. Free catalog. Gardiner Electronics Co., Dept. 3, 2545 East Indian School, Phoenix, Ariz.

TREASURE, GOLD, Silver Relics. Find them with new super detectors, transistors. Free information. Detectron, Dept. 11-A, North Hollywood, California.

TREASURE! MAP, handbook 25¢. Locators. Howe, 811C Kansas, Atchison, Kansas.

• • • PRINTING, MULTIGRAPHING, MIMEOGRAPHING

BUSINESS CARDS Raised Letters $3.00 per 1,000, like engraved. Free samples. Kavanagh, 607 Knickerbocker Ave., Brooklyn 21, N. Y.

1000 BUSINESS CARDS, "Raised Letters" $3.75 postpaid, Samples. Routh, MI-1161 2633 Randleman, Greensboro, N. C.

FREE CATALOGS. Postpaid printing, Rubber stamps. D M Press, Sebastopol, Calif.

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NEW PRINTING Supply and Type Catalogs. Two 9" x 12" books, 300 pages illustrating printing press, rubber stamp outfits, gold stamping presses, bookbinding equipment. Hundreds of type styles including brass type, steel type, wood type. Thousands of supply items from world's largest printers' supply house. Send $1. to cover mailing. Refund with first order. American Printing Equipment & Supply Co., Dept. MI, 42-25 Ninth Street, Long Island City 1, N. Y.

MAKE YOUR Own self-molding rubber stamps and printing cuts. Plexirubber, Argyle 3, Wisconsin.

PRINTING OUTFITS, type, supplies. Send dime for illustrated supply book and samples. Kelsey, Inc., H-57, Meriden, Conn.

RUBBER STAMP Presses, Supplies. Kiewiet, 2025 Barney Road, Kalamazoo, Michigan.

PRINTING PRESSES, Type, Supplies. Lists 4¢. Turnbaugh Service, Mechanicsburg, Pa.

• • • STAMP COLLECTING

AMERICAN HISTORICAL Collection!! Enormous George Washington beauty, F. D. Roosevelt Diamond, Giant Abe Lincoln USA Flag commemorative, plus Midget soldier, Latin Orchid issue, Old IFNI overprint, etc. 10¢ with approvals. Roseland Stamps, Spring Lake 5A, Mich.

307 WORLDWIDE DIFFERENT Stamps only 25¢. Approvals. Niagara Stamps, St. Catharines 203, Ontario.

UNITED STATES commemorative collection containing 33 different—10¢. Approvals. White, 516-M Avenue L, Brooklyn 30, New York.

WILL ROGERS Air Helicopter Triangle! Plus Monte Carlo Dove Triangle! Stamp printed in Solid Gold! New York Empire State Bldg. airmail, lovely Congo Orchids in full colors, etc. 10¢ with approvals. Sunny Stamps, Apopka 5A, Florida.

21,000 ALL DIFFERENT, only pennies a day using our systematic payment plan. Details Free. Sjoquist, 1435-B Cherrydale, San Jose 25, California.

1000 DIFFERENT WORLDWIDE Stamps $1.00. Value over $20.00. To adults only requesting our Popular Packet Approvals. Universal, Box 6, Kenosha 10, Wisconsin.

225 STAMPS FOR Only 10c! This mammoth value includes Airmails, Pictorials; stamps from strange Countries cataloguing up to 25c each! Also approvals. Mystic Stamp Company, Camden 30, N. Y.

103 DIVERSIFIED BRITISH Empire stamps, 10¢. Approvals. Niagara Stamps, St. Catharines 503, Ontario.

HOLY STAMP Depicting Christ & Cross!! Plus Triangle Discus Thrower, enormous multi-colored Spanish Diamond issue, wonderful Map Collection from Timor, Macao & Angola. Extra! Brilliant Flag set, etc., only 10¢ with approvals. Capital Stamp Co., Ferrysburg 5C, Mich.

GIGANTIC COLLECTION Free—Includes Triangles—Early United States—Animals—Commemoratives—British Colonies—High Value Pictorials, etc. Complete Collections plus Big, Illustrated Magazine all free. Send 5¢ for postage. Gray Stamp Company, Dept. MI, Toronto 5, Can.

FIVE JAIMACA 10¢ with approvals. Smith, Mohawk, White Oak, McKeesport, Penna.

ALBUM! HUNDREDS of Spaces! Only 25¢. Postpaid! Stampmart, Hartford 1, Connecticut.

NUDES SET (4)—unusual approvals—10¢. Atlasco, Plainfield, Racine, Wisconsin.

U. N. COMMEMORATIVE set 10¢ to approval applicants. Fine Stamp Co., Box 71-I, Detroit 24, Mich.

GIGANTIC SURPRISE Packet, contains "hundreds"—only 15¢. Approvals accompany. Drasal, Box 128-S, West Englewood, New Jersey.

SENSATIONAL PENNY Approvals! Pictorials, topicals, etc. Write today! Schmidt, Box 1128, Richmond, Calif.

CANADA TOTEM dollar only .25¢, approvals. Rheaume, 6591 11th Ave., Montreal 36, Que., Canada.

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USED AND new watches $2 up. Free Catalogue. Southern Watches, 5-M South Wabash, Chicago 3, Ill.

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Here is exciting news about some of the miracles of science that soon will become realities.

ABOUT 400,000,000,000 cubic feet of natural gas will come into the U.S. from Canada this year through seven new pipelines. Reserves of natural gas in the western provinces are estimated at 300 trillion cubic feet.

Airports around the country may soon be installing light systems like the new British system at LaGuardia Airport, New York. Rows of lights on either side of the runway are arranged so that the pilot coming in sees the front row as white, the back row as red. All are red if he's too low; all are white if he's too high. Lights are visible for 15 miles.

Largest hydroelectric power project in the Western Hemisphere (and possibly in the world) is being built in the shadows of Niagara Falls. It will generate 2,190,000 kilowatts—more than 3,000,000 hp—and will be finished in 1962.

A spaceship to circle Mars and pick up data radioed to it by a capsule dropped to the planet's surface has been described by C. R. Gates, West Coast jet expert. The proposed craft is based on existing technology.

Tiny radios attached to wild rabbits, raccoons, ducks and other animals will soon be helping wildlife studies, giving data on movements, feeding and sleeping habits, and body functions.

New ceramic linings have been developed to contain the white-hot stream of gases in a new kind of electric power generator. Magneto-hydrodynamic (MHD) generators produce electricity directly without using a steam turbine or rotating generator, are expected to be more efficient, smaller and cheaper than present systems.

Yugoslavian medical researchers have found a way to test patients for hidden tension and anxiety; the reaction of the pupil of the eye to lights tells the story. When upset the patient shows little reaction to light; when tension is relieved reaction becomes normal.

Low frequency radio waves shot through the dense rock mass under the United States may provide a jam-proof communications system for emergency use. Antennas a mile in length and lowered into the earth will pick up signals from the great "natural cable."

Adolescent violence may be forestalled in the future through new knowledge of brain-wave patterns. Teen-age murderers have been found to produce typical patterns on brain-wave tracings.

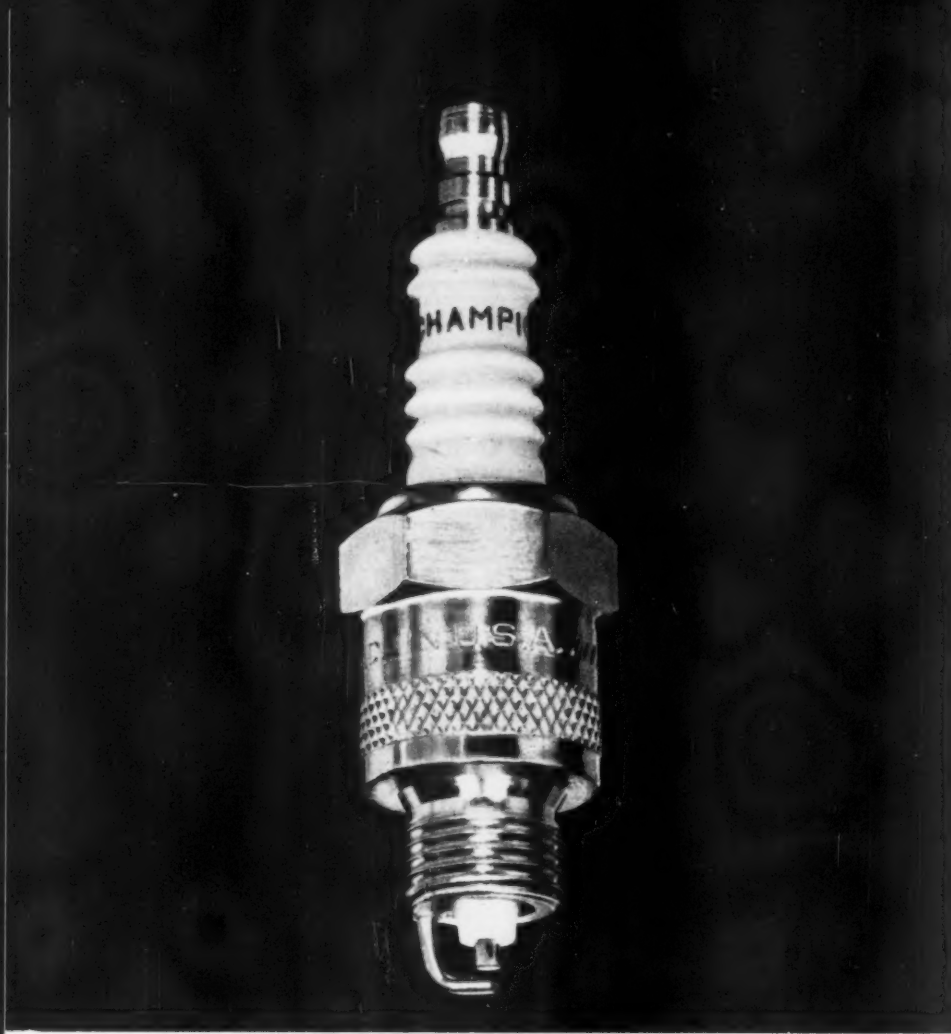
An atomic tree—a European alder grown from a seed exposed to nuclear radiation 400 times stronger than the amount required to kill a man—was planted in 1957 and is still growing. It is more resistant to the leaf miner, a blight, than its parent alders are and it has glossier foliage. Furthermore, it drops fewer seeds for caretakers to sweep up. The seed from which it grew was the sole survivor of thousands of seeds exposed to radiation at Oak Ridge. The tree is at the Holden Arboretum, Mentor, Ohio.

Industrial diamonds may be formed in the future by subjecting graphite to explosive shock. Diamonds have already been formed in experiments in which a charge was ignited in a graphite container. Present industrial diamond production methods are much more complicated.

Computer centers, which handle users' problems as they are phoned in, will be an important new type of service according to MIT authorities.

"Libraries" of scientific instruments that lend out instruments to individual students and teachers for their own research and study projects have been recommended by faculty members of the University of Missouri and at Pennsylvania State.

Aerial maps of the future will be three to four times more accurate because of a new mapping technique called analytic aerotriangulation; many new skyscrapers will be on pads of lead and asbestos that eliminate vibration; first commercial appliance to use the principle of cooling by passing a current through junction of dissimilar materials is a new water cooler.—Harvey Gardner.



Twice as many car makers specify Champions, because Champions deliver the ultimate in performance and quality

Champion introduces a new silvery-plated spark plug, which has more than 10 times the resistance to rust! These silvery-plated plugs were first made for the world's finest aircraft and marine engines, and are now available for your car. They cost no more than ordinary plugs. Why settle for less?

CHAMPION

MAIL FOR McCAHILL

UNCLE TOM ANSWERS HIS MOST INTERESTING LETTERS IN THIS COLUMN. WRITE TO HIM AT *MECHANIX ILLUSTRATED*, 67 WEST 44TH ST., NEW YORK 36, N. Y.

● *Your articles in MI have fascinated me for a long time. I am Chief of Police in a small community of 7,000 people and would like to know, in view of all the experience you have had with cars, what specifications you would recommend for a police car and what one would be best for our needs?*

J. J. Ranger
Chief of Police
Ste. Agathe Des Monts, Canada

A slow one.

● *A friend of mine claims that he can make gasoline for his automobile out of a mixture of glycerine, nitric acid and linseed oil. Is this possible?*

Paul Blaikie
Truro, Nova Scotia

Anything is possible. What time does the balloon go up?

● *My family and I have been avid readers of your column for many years and consider you to be an authority on safe driving practices. We would like your opinion on the advisability of using the left foot on the brake on cars with automatic transmissions. I've made stopwatch checks and find that I can cut my time in half by applying the brakes with my left foot. We would appreciate your opinion on this soon as the argument is getting hot.*

Harold James
Rosemead, Calif.

Use of the left foot on the brake would be ideal except for one thing: 90 per cent of our current drivers were brought up either with stick shift or taught by old stick shift drivers always to use the right foot and save the left one for the clutch pedal. Nine out of ten drivers today would toss their passengers right through the windshield if they used their left foot on the brake in an emergency, as the left foot just hasn't the trained and educated feel of the right one in braking matters. However, if brand-new drivers were instructed in left foot braking, it would be a better deal than using the right tootsie. To switch over the old-timers would take quite a lot of doing because all truly great drivers drive by instinct developed from thousands of miles of driving experience. Most of the drivers we have around today unconsciously jab with the right foot if things get meat-axey ahead. It's an educational problem that would take a lot of working on.

● *Can you tell me what Chrysler is going to do when their 300 series reaches Z?*

Steve Economides
Dover, N. H.

Probably start a 400 series.

● *So you don't think it was very sporty of a wife to call the cops on her own husband! Well, I got news for you—she didn't do it for sport. She did it because she is stuck with a lamebrain, self-satisfied, I-live-a-charmed-life jackass, and she thinks he is worth keeping alive in spite of his faults! "Safe stretch of the road" indeed! There is no such thing and you know it! The greatest number of accidents happen within 25 miles of home and they happen in ideal weather, under perfect road conditions, and a lot of them even on the straightaway. There is no absolutely safe vehicle, and few men have the precautions and "back-up" features Cmdr. Alan Shepard had in Freedom 7. You, of all people, should be able to describe what could happen to a guy if there were an unexpected part failure or other emergency (bee or wasp in the car) at 100 mph. If you can't, then read about Tony Bettenhausen's last ride. Believe me, the new hat that fine would have purchased would have given that wife a lot more satisfaction. If she hadn't loved the blubber-*

[*Continued on page 44*]

For '62 your Chevrolet dealer's

Impala Sport Coupe

'62 Chevrolet

Built for people who want room, refinement and riding comfort found in much more expensive cars

Chevy II 300 2-Door Sedan

the new Chevy II

Built for people who want modern basic transportation in the best Chevrolet tradition. Here they are—a totally new line of thrift cars from Chevrolet, encompassing a whole new concept of engineering simplicity to clamp down on service and maintenance cost. Bolt-on front fenders, roomy engine compartment and easy accessibility of adjustable components are just a few of the maintenance advantages of Chevy II's unique design. Thrifty 4-cylinder engine (also satin-smooth 6) wrings extra miles out of a gallon of regular. Unique Mono-Plate rear springs do away with the friction and harshness of old-style springs to give you a remarkably smooth ride. These and a host of other surprises in nine spanking new-sized models, including station wagons and the soon-to-come hardtop and convertible.

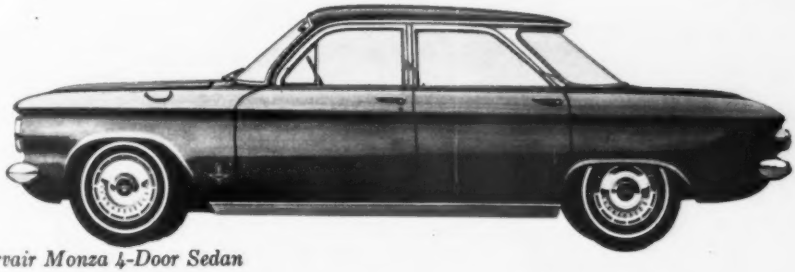
CHEVROLET *A New World of Worth from Chevrolet*

got the car for car minded people

Impala Sport Sedan

Here's all the car you could reasonably want. Beauty *built to stay beautiful*, from long-lived deep-luster acrylic lacquer finish right down to new rust-resisting full front fender underskirts. A choice of six engines—ranging all the way up to a 409-cubic-inch powerhouse.* A Jet-smooth ride that rivals anything high-priced cars have to offer. (The reason, of course: Chevrolet's unsurpassed combination of Full Coil suspension and more than 700 noise and vibration filters.) Whatever else you have in mind for that next car of yours, you're almost sure to find Chevrolet has been thinking right along with you. See for yourself at your dealer's.

**Optional at extra cost*



Corvair Monza 4-Door Sedan

'62 Corvair Monza

Built for people who go for sports car driving but don't go for sports car prices. Here's more that can't be copied—from the car that started the bucket seat* brigade. Bigger brakes combined with that special Corvair blend of rear-engined traction and precision steering give you an ever surer, more secure command of the road. There are saucy new styling accents and tasteful interior trim for '62. Yet—with all these refinements—the new Corvair is as sparing as ever on gas. Get on over to your dealer's and discover these and all the other delights that await you in this newest version of America's most renowned rally car. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

**Bucket front seats are standard on the Monza Club Coupe, optional at extra cost on the Monza 4-Door and Station Wagon.*

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Yes, you can actually *feel* the difference in a Silentone muffler—you can *weigh* the extra quality, because there's:

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For the finest glass-packed muffler with distinctive low, power tone, see Dynatone—it's tailored for *your* car.

Sold only by America's leading automotive chain stores.

SILENTONE®
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Dept. D-16, 619 Smith St., Toledo, Ohio

Mail For McCahill

[*Continued from page* 41]

ing idiot she could have called the insurance agent and upped the take she had a good chance of collecting just by keeping her mouth shut! Not one of you wise guys will admit you believe in Santa Claus, but you sure swallow fairy tales hook, line and sinker when you say, "Now, honey, nothing is going to happen to me. I'm careful. I know what I'm doing." Oh, brother, talk about famous last words! Just once, couldn't one of you men look farther than the end of your own nose?

Mrs. Barbara A. Heavilin
Danville, Ind.

You gals are lucky we don't look much farther than the ends of our noses or few of us would ever get married. I hate to admit it but you made a lot of good points that nobody could argue with.

● *Please inform Lyman S. De Camp (May MI) that he can get a Ford, Falcon, T-bird or Ford Truck shop manual from Helm, Inc., P.O. Box 7750, Detroit 7, Michigan. I have just received my shop manual for my '61 Falcon. It cost only $3.00, too.*

Emerick M., Jr.
Pittsburgh, Pa.

A '61 Falcon for $3.00 is an excellent buy.

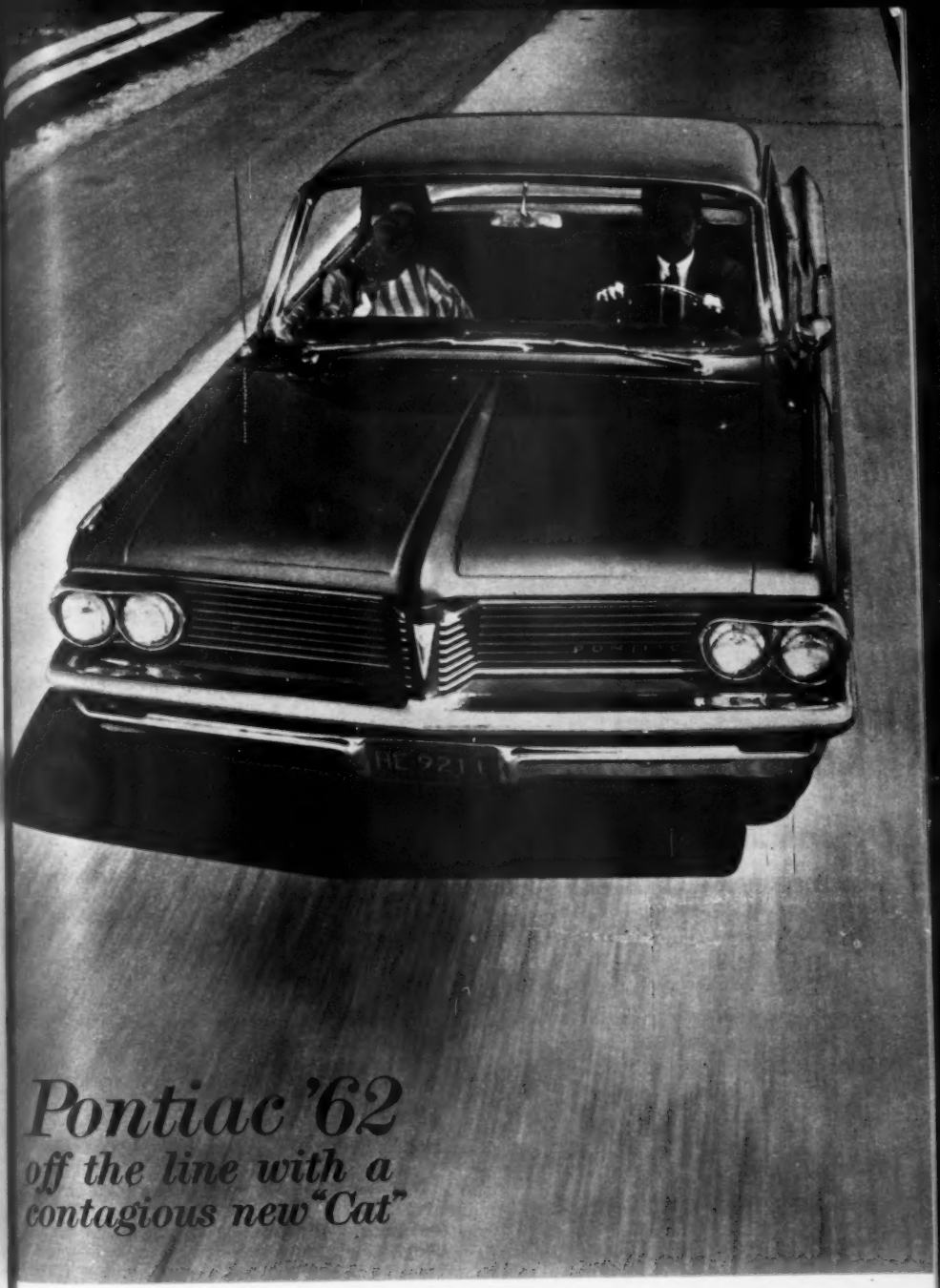
● *In the May issue in your Volkswagen test you said you reached the roll-over point and it didn't flip. I own a Volkswagen and would like to know how you tell when you've reached that point?*

Bill Thompson
Detroit, Mich.

Easy—it's when you're looking up at your pants cuffs.

I have an interesting letter this month which was addressed to reader George Koch whose address I've lost. So I'm taking the liberty of relaying the contents here. Mr. Koch wanted to know where the Simplex automobile was made, and reader Carlton R. Mabley, who was with Simplex, comes up with the answer: "The Simplex was manufactured by our Simplex Manufacturing Co., East 83 Street and East River in New York City. I believe it was the only automobile ever made in New York City excepting our own Smith & Mabley Simplex of 513 Seventh Avenue." Mr. Mabley may be right about the Simplex being the only car manufactured in Manhattan—but not in Greater New York. The American Mercedes, for example, and the Brewster were both built in Long Island City

[*Continued on page* 46]



The '62 breed of 'Cat' is all you know Pontiac to be, and more. Pours it on with horsepower rated from 215 to 348. Transmissions include a 4-speed floor stick (option*) and a heavy-duty 3-speed stick (floor conversion available from your dealer). Or, take it the easy way with Pontiac's Hydra-Matic*. The Trophy V-8 A* winds right up over 5000 r.p.m. There's nothing bogus about this 'Cat'. Clean, low and long. Take your choice of optional* Tri-Power, Safe-T-Track rear end, aluminum wheels and Custom Ventura trim (full carpet, vinyl headliner and color-matched interior). Why *follow* the Wide-Tracks? Make your own in a '62 Catalina. Pontiac Motor Division • General Motors Corp.

*Extra cost

TOP performance

Mountain climbers communicate with their base with battery-powered walkie-talkies. For top performance, always buy Burgess Batteries. Dependable, long-lasting power for flashlights, radios, hearing aids, toys and games, and lanterns.

BURGESS BATTERY COMPANY
DIVISION OF SERVEL, INC.
FREEPORT, ILLINOIS NIAGARA FALLS, CAN.

Mail For McCahill

[*Continued from page* 44]

(also a part of New York) and I believe there were some others. However, thanks to Mr. Mabley for setting us straight on this. By the way, David Lockhart, who does many of the illustrations in this magazine, is the son of the former president of Crane-Simplex.

● *Tom, you slay me with your answers—well, almost all of them. You've been around, Tom, and I know that you know what you're talking about. So I understand you. People all have problems, some serious and some funny—but all problems. Since I've run out of gas, Tom, it's been nice to write to you.*

Zenas Davidson
Denver, Colo.

It's been nice to read from you. If you have room for a few more problems, I'll send you some—I got 'em by the boatload.

● *In your VW article in the May issue, I'll betcha a buck that you had to look up how to spell "braggadocio."*

Robert W. McMahon
Henderson, Ky.

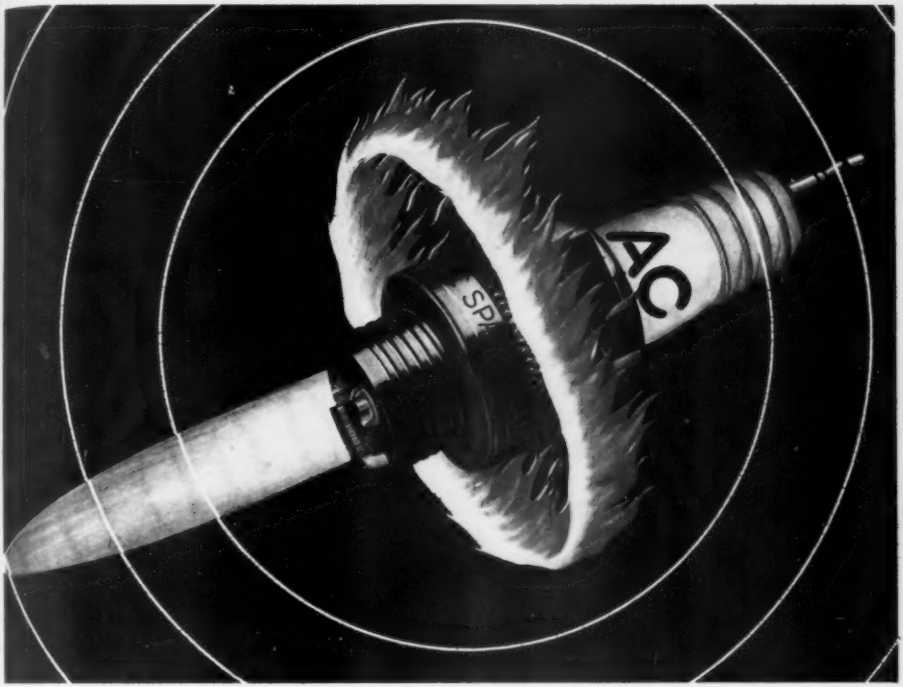
You lose the buck, Bob. We just went ahead and spelled it wrong. We rely on old Bill Parker, our demon editor, to keep us straight on such things—he studied spelling.

● *As you know, the sales of imported cars keep rising steadily with "economy" usually being given as the reason for the purchase. However, I don't think this is the real reason at all. It is my theory that the imports sell because they are screwed together right the first time. Today's current Detroit practice of assembling the first half of the car and letting the dealer finish the job, together with the sleazy form of sabotage called "workmanship" on this side of the water is, I feel, the answer to the drop in new car sales. I wonder if you'd have any figures on how much America has lost in dollar sales over the past four years, say, to prove or disprove my theory?*

Dave Hands
Scarboro, Ontario

No, I have no such figures. But don't forget, we sell a great deal of goods abroad that they wouldn't have been able to buy if we hadn't bought their cars. One reason for buying an import which you may have overlooked (and this I know to be a fact) is the slight feeling of exclusiveness that goes with owning one. If a woman pays two or three hundred dollars for a dress, she'd feel pretty miffed if, on her

[*Continued on page* 50]



Get maximum ACtion from today's high octane with AC Fire-Ring Spark Plugs

AC Fire-Ring Spark Plugs are designed and built for the fast power-producing action of today's high octane gasolines and high compression engines.

Your selection of ACs for your car provides you with spark plug construction made-to-order for the tremendous pressures and temperatures of modern engine combustion.

AC Fire-Ring Spark Plugs feature heat bonded inner seals for positive protection against gas leakage and overheating—massive chrome-nickel-barium electrodes for longer electrode life—and the exclusive Hot Tip that heats faster, cools faster for sustained smooth power performance.

At your next spark plug change, get the spark plug made for the explosive action of high octane gasoline—and remember, you get AC quality only under the AC name. Ask for ACtion . . . ask for AC!

AC SPARK PLUG ⊛ THE ELECTRONICS DIVISION OF GENERAL MOTORS

you get powerful ACtion with AC

FIRE-RING SPARK PLUGS

EXCLUSIVE ONE-PIECE CAB-BODY DESIGN gives Ford Styleside pickups extra capacity, extra strength. Heavy duty in every way for heavy going all day. Car-like ride, too!

THEY'RE HERE!

NEW '62 FORD TRUCKS

Get full-time economy that only starts with Ford's low price!

Meet the trucks that make saving money a full-time business—new Ford Trucks for '62!

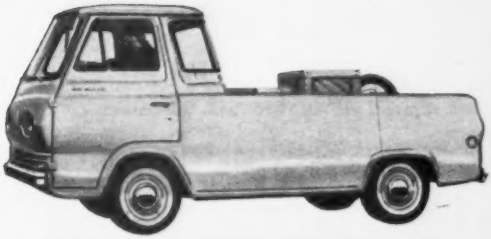
In a selection of over 600 models there's a truck that's just right for your job, whatever your job . . . a truck that can save you money, mile after mile, load after load, year after year!

You save on price. You save on gas and oil. You save on tires, on maintenance—wherever there's a way to save! The full record of Ford economy, covering three years of independent tests, is in Ford's Certified Economy Reports. See your Ford dealer now. Check out the facts, work out a deal and drive out a truck that saves money . . . full-time!

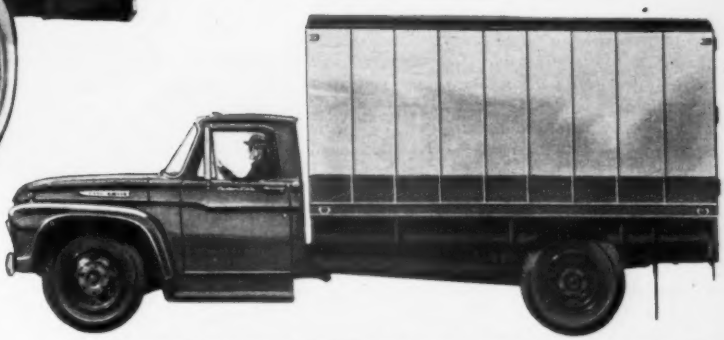
FORD TRUCKS COST LESS

SAVE NOW... SAVE FROM NOW ON!

AMERICA'S MOST POPULAR VAN—and small wonder! Economoline savings start with a price far under any conventional panel on the market! And they continue every day—certified tests have shown that in just 16,000 miles savings in operating costs can top $100! Big 4-ft. doors rear and curbside, 204 cu. ft. of loadspace!



ECONOLINE—ALL-AROUND ECONOMY LEADER—can cut operating costs $100 yearly! Carries ¾ ton with up to 23% more loadspace than conventional 6½-footers. And the loadspace is all usable—the floor is flat, there's no rear-engine hump!



NEW BIG SIX FOR FORD MEDIUMS has more heavy-duty engine features than any other Six of its size! Never before such long-term reliability and economy!

SUPER DUTY V-8 OR DIESEL power gives Ford's new highway tractors superb performance. Optional sleeper cab adds only one inch to cab length, allows 40-foot trailers in 50-foot over-all length. GCW's up to 76,800 lbs.

PRODUCTS OF Ford MOTOR COMPANY

[Continued from page 46]

next visit to the supermarket, she saw 12 other women wearing identical dresses. Yet it is very commonplace to see dozens of similar $4,000-plus cars parked outside the same supermarket.

● *I read and enjoy all of your articles, value your opinion and tolerate your humor for this reason. When properly stimulated, your answers are short, factual and informative—so please answer my question in a like manner. I recently purchased a 1961 Chevrolet with a 170-horsepower motor. My dealer changed the two-barrel carburetor and manifold for a four-barrel and told me it was then a 230-horsepower engine. I wrote the factory and they referred me back to my local dealer for explanations but I'm still not satisfied. Tell me, what is necessary to change a 170-horsepower engine to a 230?*

John V. White
Tulsa, Okla.

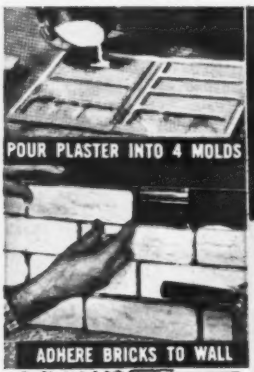
Sixty more horsepower.

● *I work for one of the large rubber companies here in Akron and was wondering if you were aware that all the tires used at Daytona Beach weren't much more stock than some of the cars? For example, not too long ago an order came through for some nylon tires to be built and cured in the regular rayon production molds so that no outward indication of their construction would be visible. The order stated that the tires were to be ready for shipment at a certain date so that they could be used in the stock car events at Daytona Beach. The order also called for special tread rubber. Another order came through for a custom batch of tires to be built with a tread rubber of special low resistance. These, too, were to be cured in the regular production molds and were to be used in the economy gas runs. Why doesn't the brass at Daytona buy a certain number of tires on the open market and insist that the different auto companies use those tires?*

Name Withheld On Request
Akron, Ohio

And I thought all the burglars were in Michigan! Just goes to prove you can't hold a truly dishonest group down.

[Continued on page 52]



MAIL COUPON TODAY!

Satisfaction Guaranteed

Decorate Your Home with BRICK at only 2¢ sq. ft.

for DRAMATICALLY Beautiful Interiors!

BRIC-MOLD—amazing new plastic mold—turns inexpensive plaster into Roman or Decorator Brick . . . changes colorless walls and rooms into thrillingly dramatic interiors with decorative and realistic 3-dimensional brick facings—all for only $3.00!

You and your wife will gasp when you see the exquisitely beautiful change in the appearance of your home after you apply these fascinating brickwork facings to walls, room dividers and planters in basement, kitchen, dining room, dinette, laundry—anywhere! Overnight your home becomes a real show-place, changing drab, paint-peeled walls into thrilling decorative surfaces.

BRIC-MOLD is a plastic mold into which you pour inexpensive plaster of paris to form realistically textured bricks a full ¼ inch thick. Use specially formulated BRIC-MOLD tile adhesive to adhere individual bricks to any wall or surface to form interesting effects. Apply BRIC-MOLD bricks over plaster, wood, plywood, concrete, cement, wallboard—ANY surface!

Each Kit processes 16 bricks at a time—so you can cover a 9x12' room in a few hours at a cost of only 2c per sq. ft. for plaster! You can apply white or colored paint to brickwork for added effect. Order BRIC-MOLD Kit today on money-back guarantee. Full instructions included.

Allow 3 weeks for delivery

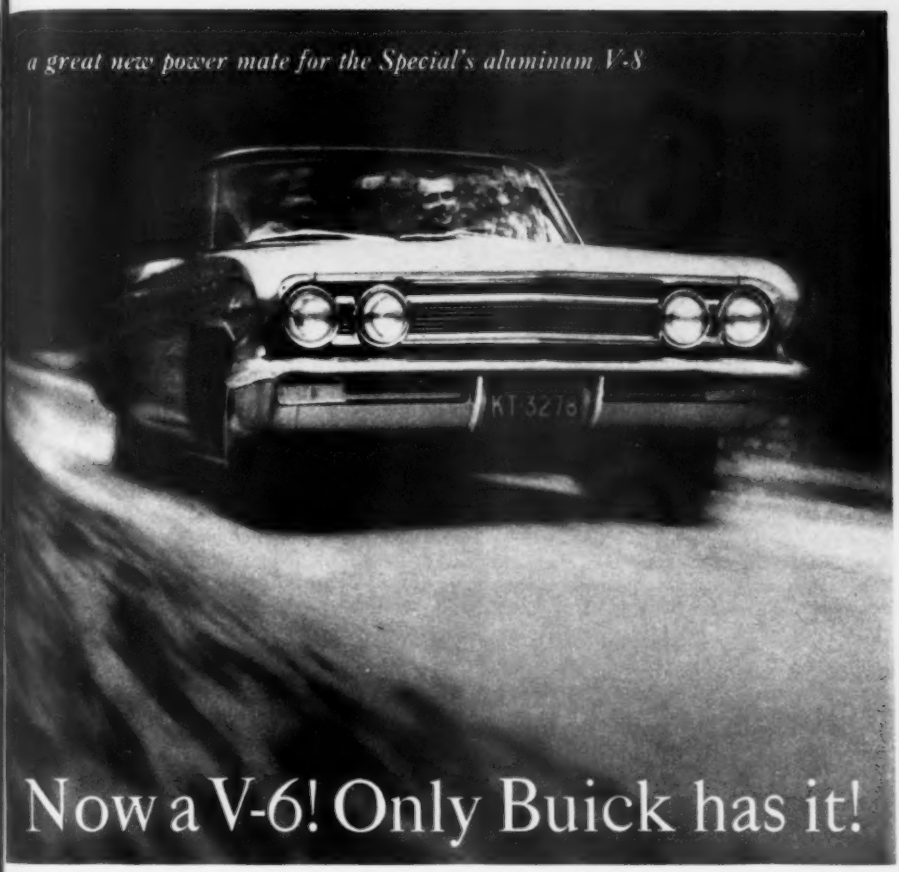
BRIC-MOLD . . . Dept. MI-11, P.O. BOX 178, Farmingdale, N. Y.

.....Decorator Brick (2"x7½") .....Roman Brick (1½"x11")
$3.00 for complete Bric-Mold Kit of 16 molds to cast 16 bricks at time
$5.50 Two Kits (32 molds).....$8.00 Three Kits (48 molds)
$2.65 for 3 lb. can of Bric-Mold adhesive. Add 25¢ postage on all orders.

Name .....

Address .....

City..... Zone..... State.....



Six for Savings—V for Voom. It was natural that it came from Buick. Natural that Buick developed the successor to the in-line six-cylinder engine...*the V-6!* A V-6 you can now get in the new 1962 Buick Special (in convertible, sedan or station wagon models). A V-6 that has 140 to 179 pounds less weight than in-line sixes of comparable power. A V-6 that gives you the V-smooth, V-lively *Voom* of big cars *plus* gas economy that challenges the compacts. A V-6 with the shortest, most rigid block and crankshaft in any American 6-cylinder car.

Why is it natural that this great engine should come from Buick? Because it was Buick which also developed an *aluminum V-8* which you can also get in the Buick Special. This is the V-8 that gives you sizzling go, yet swept its class in 1961's Mobilgas Economy Run against the country's top drivers. It's natural that it should come from Buick, too, because so many other great automotive advances *have* . . . such as today's safe, simple directional signals . . . fin-cooled aluminum brakes . . . the first no-shift transmission . . . the first hardtop. So here again you have exciting proof that when better automobiles are built, Buick will build them. Buick Motor Division—General Motors Corporation.

'62 Buick Special V6 V8

The happy-medium size

[Continued from page 50]

● *My father is sold on modern American cars. He plans to buy me a Corvair as a graduation present. This is really marvelous except that I want a Rolls-Royce.*

Reginald A. Stocking II
Glendale, Calif.

Me too.

● *In the past ten months I have been very fortunate to purchase MI from my newsstand and I must congratulate all concerned with such a magnificent magazine. Its price here is 2/6 and if it were double that price I would gladly pay because it's the best.*

John Nicholls
Berkhamsted, England

Who's arguing? Besides, we need the money.

● *Recently I saw in another publication a steel company advertisement showing how steel is far superior to aluminum for automobile bumpers. Despite this, I understand some cars will feature aluminum bumpers next year. Which is the strongest, Uncle Tom?*

Ted Duray
Wilmington, Del.

On a size-for-size basis (not considering weight) steel is stronger.

● *This hasn't much to do with automobiles but the recent Emmy Awards program on television made me sick. It seemed like every other minute there was a commercial that loused up the program. Don't those TV clowns make enough dough to sponsor their own show once a year without those crummy commercials?*

Jack Barker
Springfield, Mass.

We must agree with you that this has very little to do with automobiles.

● *Here in Wiesbaden, Germany, the U.S. Commissary is downtown in a crowded area. The parking lot isn't a bit bigger than it should be so they made some big parking spaces and some small ones. Then they put a sign on a tree which reads: "Parking For Small Cars Only—Opel, Volkswagen, Simca, Etc." My question is: what is an Etc.? Where are they made? Do you have any info on them at all? I've been looking for one ever since.*

[Continued on page 54]

Just a Few Months NEW and Already One of the HOTTEST Money-Makers for Men Everywhere—even Spare Time!

HOW HOT? Read how great these men are doing!

MERLITE Longer-Life Light Bulbs—the Only Bulbs in the World Backed by this SENSATIONAL GUARANTEE:

ONCE YOU BUY MERLITE LIGHT BULBS—YOU NEVER HAVE TO BUY BULBS AGAIN—*NEVER!*

Daring NO-TIME LIMIT FREE REPLACEMENT GUARANTEE
Does the selling FOR YOU—MAKE up to $1,000.00 in a MONTH!

It's fantastic—14 magic words (ONCE YOU BUY MERLITE LIGHT BULBS—YOU NEVER HAVE TO BUY BULBS AGAIN—*NEVER!*) are making it easy for men everywhere to make a "small fortune"—as much as $1,000.00 and more in a month, spare time or full time! No demonstrations, no fast-talking sales pitch needed. Almost everyone jumps at the chance to buy Merlite Bulbs with the iron-clad Guarantee (packed with each bulb) that unconditionally offers to replace FREE any burned-out Merlite Bulbs, no matter when they burn out—in 5 years, 10 years—NO TIME LIMIT! And the Guarantee applies to all Merlite Bulbs purchased or replaced! Every home needs 12 to 24 Merlite Bulbs to replace old-fashioned short-life non-guaranteed bulbs. Make up to 120% profit, easily make $50 in few spare hours. Merlite men are doing this now.

Averages $12 an Hour

"Merlite Bulbs are the answer to a salesman's prayers. They're fantastically easy to sell. Working only part time, I have averaged $12.00 per hour."
Philip Smith, Maine

Sold 178 Bulbs First Afternoon

"The first afternoon I sold 178 bulbs. Am very pleased with reception we get from customers. Please ship my next order at once."
W. E. Foust, Arkansas

Makes $8.20 an Hour in Just Spare Time

"These guaranteed Merlite Bulbs surely sell. I've averaged $8.20 per hour for the time I've spent with them. That makes a nice income and wish I could give full time to the job."
L. C. Benedict, Virginia

FREE Money-Making Details Amazing No-Risk Offer

Find out for yourself how much money you can make with the sensational Guaranteed Merlite Long-Life Light Bulb. We'll send you—FREE and without obligation—complete money-making Illustrated Sales Outfit and an astounding offer which helps you get started making money without risking a penny. Mail coupon TODAY!

Merlite Industries, Inc., Dept. C-10L
(Bulb Div.) 114 East 32nd Street, New York 16, N.Y.

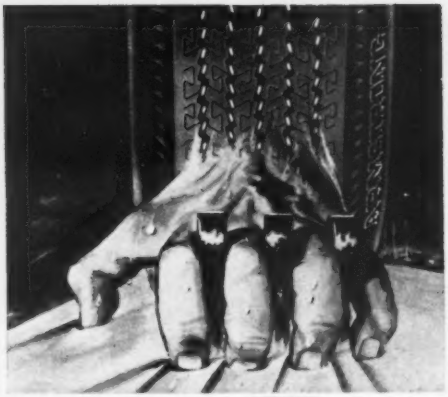
Merlite Industries, Inc., (Bulb), Dept. C-10L
114 East 32nd Street, New York 16, N. Y.
Rush complete money-making illustrated Sales Outfit and No-Risk Starting Offer—FREE and without obligation.

Name.....
Address.....
City.....Zone.....State.....
In Canada: Mopa Co., Ltd., 371 Dowd St., Montreal, P.Q.

!NEWS! FORD MOTOR COMPANY SWITCHES TO AUTOLITE

Autolite spark plugs are now specified by Ford Motor Company engineers as original equipment on every Ford Falcon, Ford Galaxie, Ford Thunderbird, Mercury Comet, Mercury Monterey and Lincoln Continental they build. One reason why? Autolite Power Tip spark plugs actually clean themselves while you drive. They burn away fouling deposits to keep your engine's power and economy at their peak. No matter what make of car you drive, be sure you always replace with AUTOLITE SPARK PLUGS

Clean themselves while you drive



This Safety-Disc Grip can save your life!

ARMSTRONG TIRES

Grip the road to stop deadly skids as no other tires can!

As low as **10.95** (6.70 x15) plus tax and recappable tire

THE ARMSTRONG RUBBER COMPANY
Home Office, West Haven, Conn.

"I Earned $400 While Learning"

Says John Braknis, Burlington, Ont., Canada
"I earned $400 during my training period. And it was fun! The course was so easy, the instructors so helpful that I think anyone can master locksmithing, as I did."

Be a LOCKSMITH

Add 50%-100% to YOUR INCOME with easy spare time earnings. Cash in on nation-wide shortage – trained locksmiths in demand! Quickly step into a big-pay opportunity job – high-profit shop of your own.

Earn Extra Money RIGHT AWAY! All Special Tools, Supplies Furnished FREE.

Age, education, minor physical handicaps don't matter in this growing trade. You can quickly qualify as a skilled locksmith. Study at home as little as one hour a week. Gain practical experience through well-illustrated lessons. Do real jobs on car locks, house locks, padlocks and safe locks, under the guidance of experts.

Here are but a few of the professional tools supplied FREE for use with course. FREE Book

Approved for Vets.

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For a future as your own boss or in a high-pay job, write now for FREE illustrated book! Only school of its kind. Lic. State of N.J., Accredited NHSC. Locksmithing Institute, (Div. Tech. Home Study Schools) Dept. 311-1, 150 Park Ave., E. Rutherford, N.J.

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Please send Free Illustrated Book without obligation.

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Address_____
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☐ Check if Veteran (*No Salesman will call*)

Mail For McCahill

[*Continued from page 52*]

saw that sign.

T/Sgt Wilson E. Clements USAF
APO 633, N. Y.

The Etc. is manufactured by Charles Etcetera and his son, Ibid, who is a tree elf in der Black Forest.

● *I have a head like yours. Recently my son admired it so much he asked the barber to give him a haircut "Like Dad's, with the hole on top." Is that the way you started?*

Jack Skalicky
Cedar Rapids, Iowa

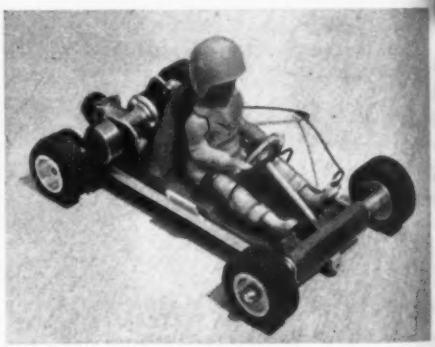
I predict your son will go far. He already shows a keen interest in the finer things of life.

● *While working on an alternator recently, I magnetized my watch so it no longer works. I understand if I put it in a bureau drawer and forget it for six months, it will be all right. However, there must be a quicker way. Do you know of one?*

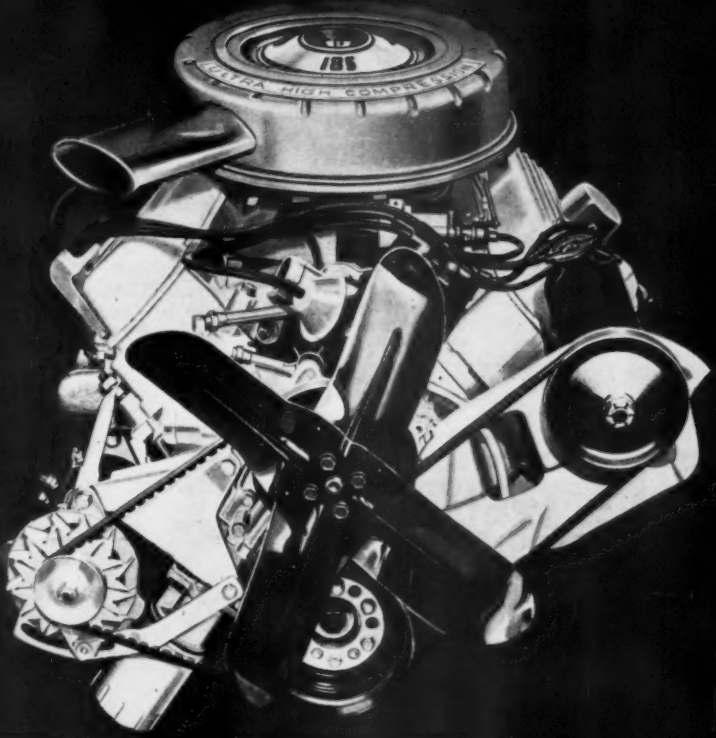
H. Frazee
El Paso, Texas

A sharp blow with a hammer will usually demagnetize most metal objects. Some say hanging the watch by the rear of a TV set will also do it. And it's a neat way of getting electrocuted, too, if you hang it there with your wrist in it.—*Tom McCahill*

MINIATURE KART



Scale model kart zips around the track under power of the "OK" Cub .024 glow plug engine. Made by Herkimer Tool & Model Works, 98 Harter St., Herkimer, N. Y., for garage, basement or driveway racing, it's held on course by a thin nylon cord. Cost, complete, $8.95.



NO MATTER HOW YOU SLICE IT... YOU CAN'T BEAT A V-8 !

HERE'S SMOOTH, POWERFUL V-8 ACTION IN EVERY OLDS!

car the size of an Olds F-85 needs the ely get-up-and-go . . . the zip and h that only a V-8 can deliver!

And the ultra high-compression Cutlass 5 aluminum V-8 Engine does just that! hat's more, the inherent balance of proven V-8 design gives you the ra smoothness that no "four" or ix" can match.

The top-performing Cutlass 185 is ndard at no extra cost in every tlass Coupe and Cutlass Convertible available at slight extra cost in all her F-85 models! Ask your local dsmobile Quality Dealer for a test ive in a Cutlass—*the car with a V-8 gine that's in a class by itself!*

OLDSMOBILE DIVISION · GENERAL MOTORS CORPORATION

Cutlass 185 Engine: 185 h.p., 10.25-to-1 compression ratio; 230 lbs.-ft. torque at 3200 r.p.m.; Multi-Jet 4-barrel carburetor; High-torque 3.36-to-1 axle ratio. All standard equipment on both Cutlass models!

Cutlass CONVERTIBLE

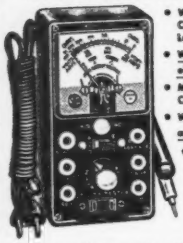
Cutlass COUPE

There's "SOMETHING EXTRA" about owning an **OLDS**

Superior's New Model 70 UTILITY TESTER®

FOR REPAIRING ALL ELECTRICAL APPLIANCES MOTORS • AUTOMOBILES • TV TUBES

As an electrical trouble shooter the Model 70:



- Will test Toasters, Irons, Broilers, Heating Pads, Clocks, Fans, Vacuum Cleaners, Refrigerators, Lamps, Fluorescents, Switches, Thermostats, etc.
- Will test all TV tubes for open filaments, inter-element shorts, burned out tubes, etc.
- Measures A.C. and D.C. Voltages, A.C. and D.C. Current, Resistances, Leakage, etc.
- Will measure current consumption while the appliance under test is in operation.
- Incorporates a sensitive direct-reading resistance range which will measure all resistances commonly used in electrical appliances, motors, etc.
- Leakage detecting circuit will indicate continuity from zero ohms to 5 megohms (5,000,000 ohms).

As an Automotive Tester the Model 70 will test:

• Both 6 Volt and 12 Volt Storage Batteries • Generators • Starters • Distributors • Ignition Coils • Regulators • Relays • Circuit Breakers • Cigarette Lighters • Stop Lights • Condensers • Directional Signal Systems • All Lamps and Bulbs • Fuses • Heating Systems • Horns • Also will locate poor grounds, breaks in wiring, poor connections, etc.

Model 70 comes complete including 64 page book, only..... $15.85

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NO MONEY WITH ORDER—NO C.O.D.

Try it for 10 days before you buy. If completely satisfied then send $3.85 and pay balance at rate of $4.00 per month for 3 months — No Interest or Finance Charges Added! If not completely satisfied, return to us, no explanation necessary.

MOSS ELECTRONIC, INC.
Dept.D-910, 3849 Tenth Ave., New York 34, N. Y.
Please rush Model 70. If satisfactory, I will pay on terms specified. Otherwise I will return tester.

Name _____

Address _____

City _____ Zone _____ State _____

All prices net, F.O.B., N. Y. C.

there's money to be made

IN THE ORNAMENTAL CONCRETE BUSINESS

Manufacture—and sell—Ornamental Concrete Products yourself. You can make high profit, low cost products that are easily, simply produced.

A simple do-it-yourself with ALUMINUM MOLDS

CMC light-weight, high quality Aluminum Molds bring you ease of operation and make copyrighted concrete designs with a national record of sales success. Here is a do-it-yourself project that brings not only fun but money—Big Money.

How to turn CONCRETE into GOLD

Clear. Concise. Complete. This big, fully illustrated book gives complete, simple, easily followed "from Start-To-Finish" instructions, lists over 200 CMC Specialty Molds. Gives Valuable Sales and Production Tips. Get the complete story. Order your copy today.

Send $2.00 for your copy—

CMC CONCRETE MACHINERY COMPANY, INC.
DEPT. M HICKORY NORTH CAROLINA

Invention Clinic

[Continued from page 29]

Measurement Calculator

Albert A. Marvitz of Chicago, Ill., has designed a device for calculating measurements of length, elevation and degrees for making blueprints with accuracy and simplicity to any scale desired. Does this have any value?

A three-dimensional pantograph will do exactly what you claim for your invention. Your device may be better but you reveal only what it will do—not how it will do it.

Burials

J. W. Harkey of Sanford, Fla., describes a different method for burial of the dead which should reduce the cost. What is my opinion of it?

Your suggested casket would be much more expensive, funeral charges would remain the same and there is considerable doubt that the overall cost will differ greatly in spite of a possible economy at the burial site.

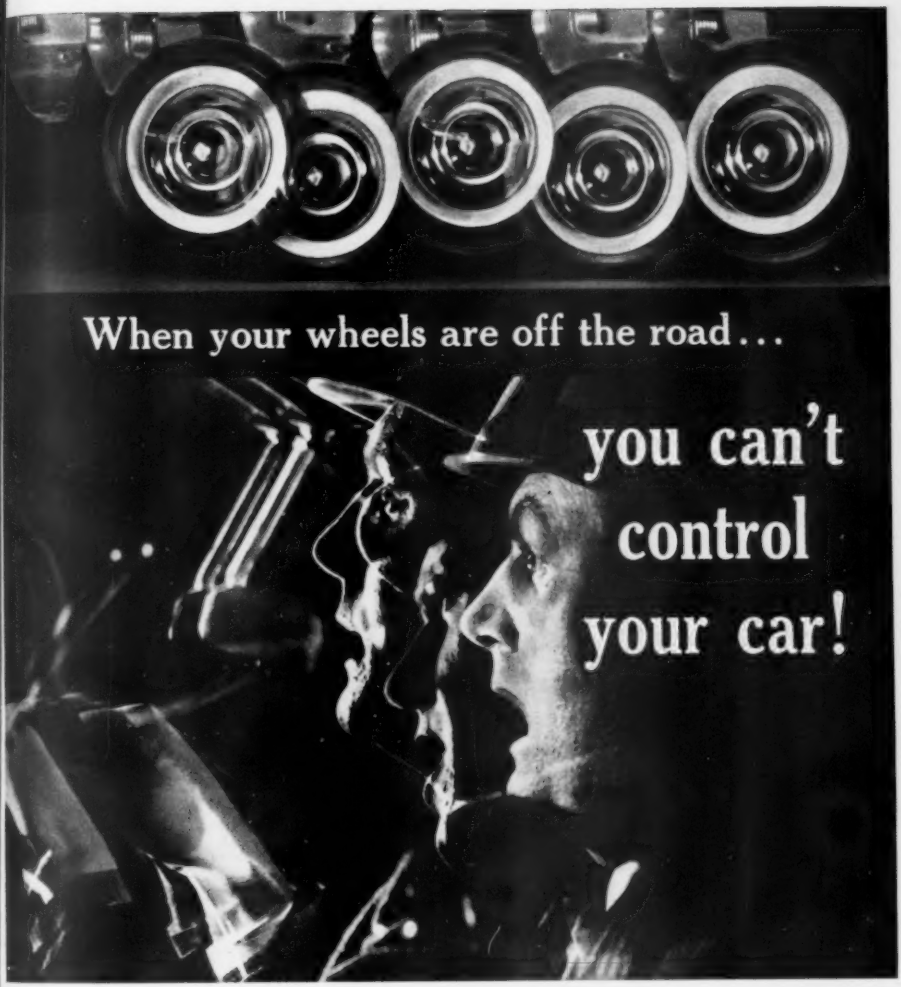
Phonograph Record Cover

Mrs. L. Johnston of Jackson, Mich., encloses a cover for phonograph records. Is there any company which would be interested in this idea?

Some hi-fi enthusiasts should go for it. The item offers a potential for launching your own business. I doubt that a patent is possible but you ought to play the long shot and make a search. Unless you get some kind of protection, hundreds of companies will start making similar items as soon as you establish a good market. •

TALKING FILM STRIP

SOUNDSTRIP projects still frames plus recorded message through built-in amplifier and speaker. Sound is recorded on alternate frames. Made by Kalart Co., Plainville, Conn.



You bet your life on your shock absorbers. Bouncing wheels are a sign of worn shock absorbers . . . and potential danger. When shocks wear out, steering becomes erratic and your car will sway badly on curves. Monro-Matic® shock absorbers do far more than just cushion your ride. They hold your wheels firmly on the road—even when you hit a sizeable bump or rut—to stabilize your car and prevent loss of control. *Play it safe.* If your present shocks have seen more than 20,000 miles service, replace them with Monro-Matic shock absorbers for the ultimate in control, comfort and safety. *60-day free ride plan guarantees you complete satisfaction.*

LOOK FOR THE YELLOW AND BLUE SAFETY BARREL WITH THE SHOCKS ON TOP!

MONROE

MONROE AUTO EQUIPMENT COMPANY • MONROE, MICHIGAN • In Canada, MONROE-ACME, LTD. Toronto, Ontario • In Mexico, MEX-PAR, Box 28154, Mexico City • World's Largest Maker of Ride Control Products, including SUPER LOAD-LEVELER® Stabilizing Units

RENEW! Redecorate! MANUFACTURE! REPAIR! with VELVETY SOFT

Spray-on-Suede!

FANTASTIC NEW HOME BUSINESS FOR BIG CITY, SMALL TOWN, FARM...

End your money troubles. Add "Spray-On Suede" spare-time profits to give you 2 income streams at once. Then use the profits to develop full-time financial security. Start anywhere, anytime. Corner of garage, basement or service porch is room enough. Few hours a week can bring money miracles!

Join these Men in the BIG MONEY up to $500 PROFIT FROM $20 WORTH OF MATERIALS (Free Franchise — Write)

"I earned $10,000 a year, spare-time start." "Made $52.50 in 4 hrs. doing auto trunks." "Got quick $140 order from store... lined up 5 others in half a day."

MAKE MORE MONEY PART-TIME THAN REGULAR JOB! As news spreads about your much-needed service, even bigger profits! Don't wait for someone else to get this "gravy." Start now! Air mail coupon today! Learn in few hours. Step-by-step instructions qualify you almost overnight. No expensive equipment, no previous experience needed. We show you how to get orders, what to charge, *everything!*

WE FURNISH EVERYTHING! Big Spray-on Suede Kit starts you fast to big profits. Refinish and beautify fabrics, plaster, paper, glass, wood, any surface. Put suede-finish on card tables, lamps, toys, handbags, radios, TV's, any cabinet, even walls in homes, offices, stores. Dozens of colors... even fluorescents. Costs pennies, pay $$$!

HUGE DEMAND AMONG CAR DEALERS. Many Franchise Holders specialize in auto field. One big used car lot can keep you busy. Spray inside of trunks, glove compartments, upholstery. Charge $7.50 for ½-hour's work on trunk...more for dashboards like the one shown.

TRUNK ANY CAR WITH AN EXCITING SPORT JOB WITH "SPORT-ON" LEOPARD SUEDE FINISH!

PLAIN WORTH 60¢ — SPRAYED WORTH $2.00

No charge for franchise; many openings now, but going fast. Don't delay! It costs nothing to get facts. Write today, Airmail!

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PATENTS GRANTED

A safety ski binding that automatically releases a skier's foot from the ski when later force is applied won Patent 2,991,086 for John B. Woodward, Bellevue, Wash. The release switch is said to be unaffected by normal shifting pressures during skiing.

Patent 2,992,405 was granted Ralph R. Ursch, Littleton, Mass., for an insulating and cooling device for transformer coils. It utilizes ceramic materials rather than conventional copper shields.

A drug compound to control epileptic seizures is the subject of Patent 2,992,163, obtained by Nelson R. Easton of Indianapolis, Ind. The patent covers both the treatment process and a pharmaceutical form of oral administration. Its anticonvulsant action has been successfully tested with adult epileptic patients.

Robert W. McKinley and Joseph H. Ernstes, both of Greensburg, Ind., received Patent 2,991,497 for a mechanical chicken plucker capable of defeathering 12 birds at once. A rotating inner drum with fixed rubber "fingers" tumbles the fowl against a similar "rubber-fingered" outer surface.

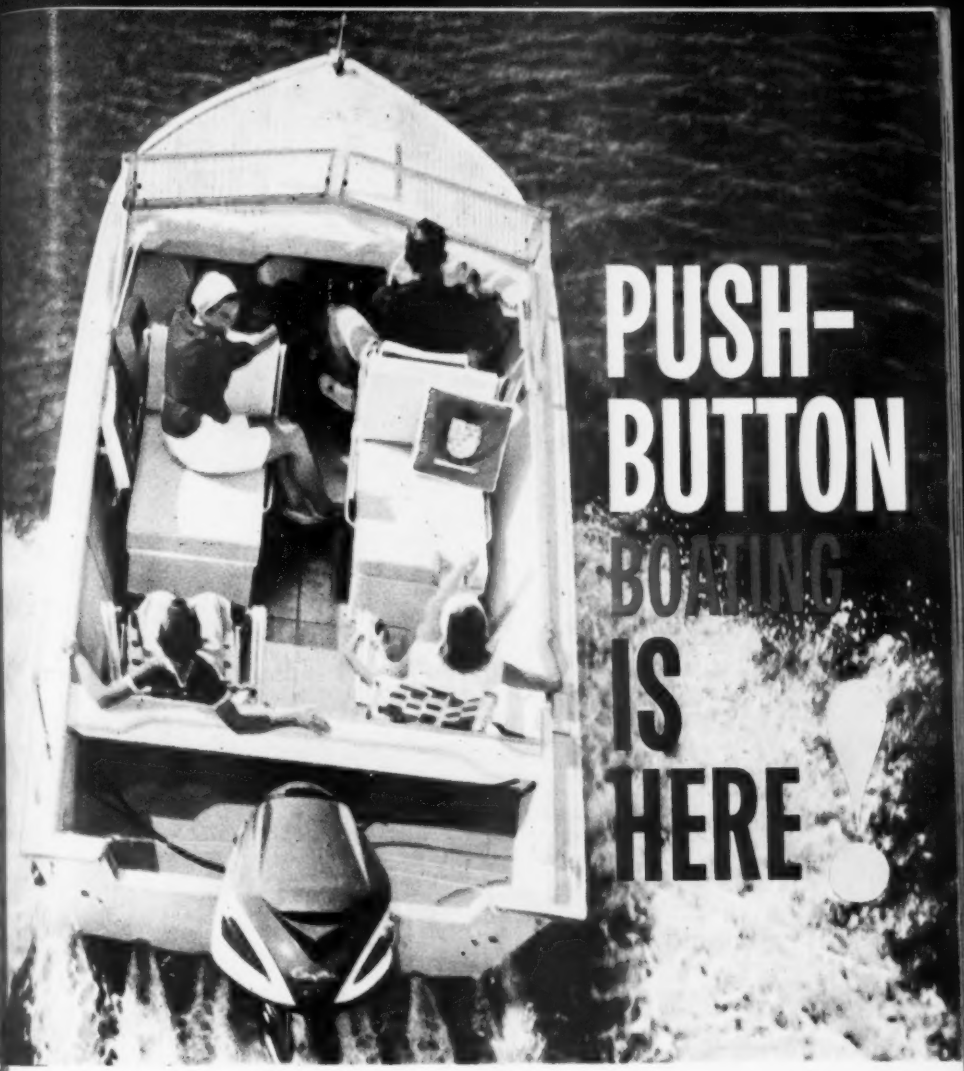
A blanket with a special heavier weave at one end for greater warmth is the idea of William P. Johnson, Jr., Asheville, N.C., that won Patent 2,986,173. This variable-weave blanket eliminates the need to toss another blanket over the feet on cold nights.

Huge jet aircraft can be moved from one ground area to another by means of self-propelled wheel movers that clamp to the landing gear and move these craft at speeds up to five mph. Jerome I. Davis, Bedford, N.Y., John E. Steinback, Stamford, Conn. and Raymond J. Enyeart, Westport, Conn. received Patent 2,993,549 for their invention.

A chemical process for treating common table salt so that it has "little or no caking tendencies" when stored won Patent 2,990,24[illegible] for three Englishmen, Thomas R. Scott of Northwich, Norman R. Bromby of Woodford and Coningsby Allday of Sandiway.

Patent 2,994,209 has been awarded Leonard J. Mann, Edgar C. Robbins and Clifford H. Wurtz, Dayton, Ohio, for a low-cost frostless refrigerator. Dead air space within the refrigerating walls prevents frost from forming in the freezing compartments.

An "instructional sky scanner" won Patent 2,994,971 for Daniel T. Meisenheimer, Milford, Conn., and Louis W. Syarto, Fairfield, Conn. A portable, battery-lit device, it holds transparent plates depicting the stars and planets. By lining these up with the actual constellations the viewer learns their names while gazing at them. •



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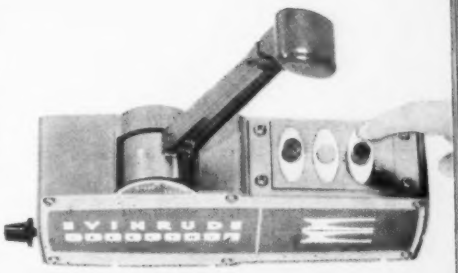
Canada: Peterborough, Ontario) A Div. of Outboard Marine Corp.



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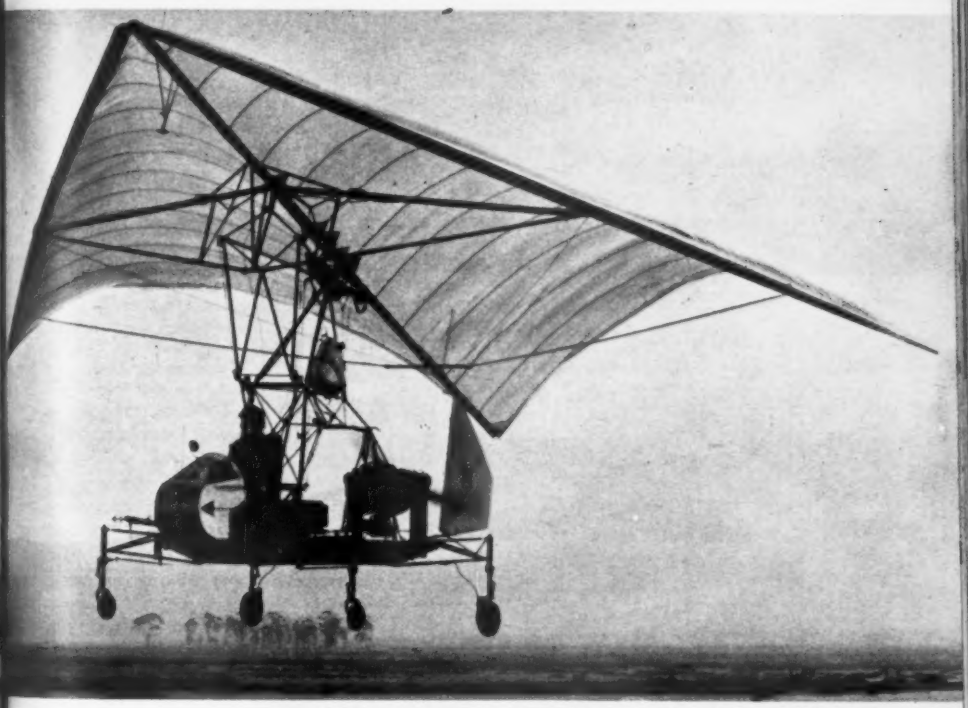
MECHANIX ILLUSTRATED
November 1961

Flex Wing Plane...

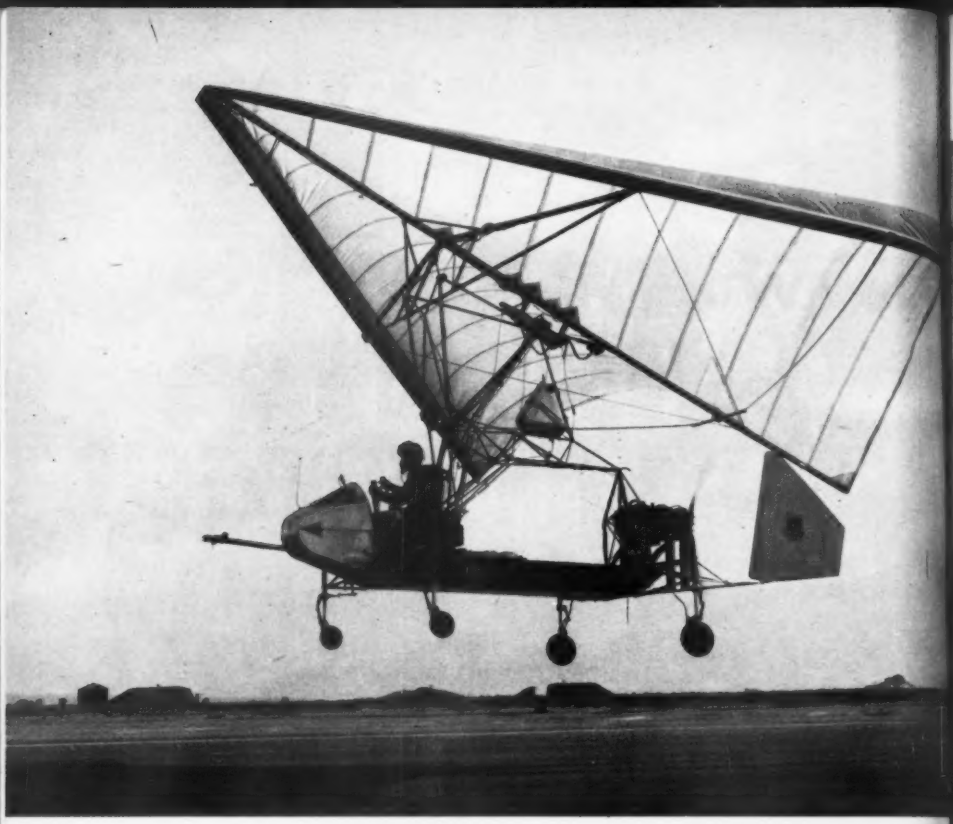
TOMORROW'S "FLYING FLIVVER"?



PTERODACTYL-LIKE, a Flex Wing hoists itself into the air.

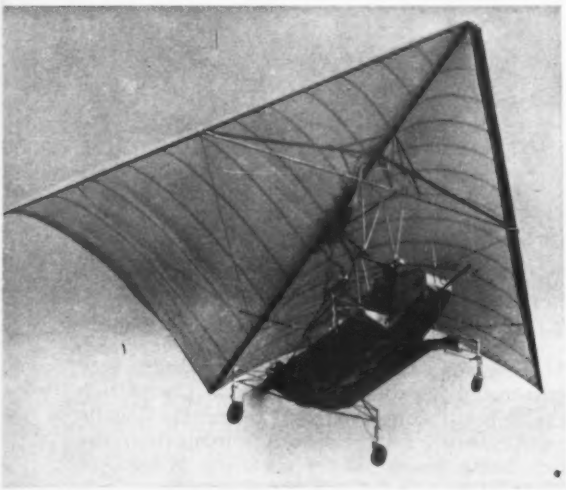
A RADICAL new aircraft dubbed the Flex Wing is now being flight-tested by Ryan Aeronautical Co. of San Diego, Calif. Originally conceived by Francis M. Rogallo of the National Aeronautics and Space Administration, the kite-like craft is being developed for a variety of applications, but especially as a troop and cargo carrier.

The plane's main feature is a flexible, Mylar-bonded



BILLOWING WING of amazing new plane has tremendous lifting capability—far greater than that of conventional light airplanes.

Cover and photos by Dick Stauss, Ryan Aeronautical Co.

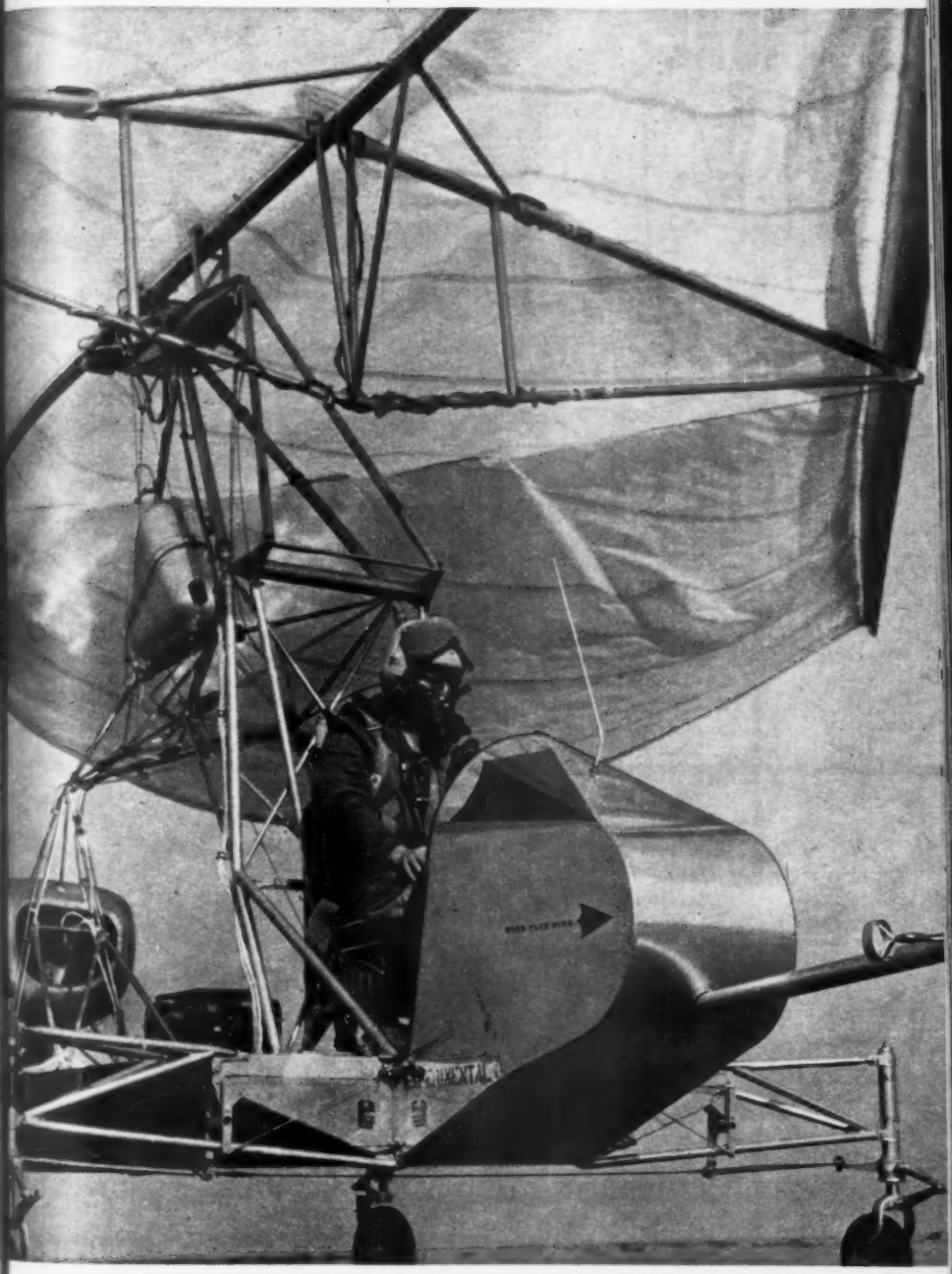


BASIC DESIGN can be traced to the gliders of Otto Lilienthal, early German aviation pioneer.

nylon wing fastened to three poles that form a triangle over the fuselage. Ryan's prototype uses a pusher-prop powered by a 180-hp Lycoming engine. In flight, the plane is guided by means of a control yoke that moves the fuselage forward, backward or to one or another side of the wing, thus causing the wing to tilt toward a new center of gravity and, in so doing, to alter the direction of flight.

The 1,100-lb. Flex Wing has been designed for a gross weight of 3,000 lbs. It can take-off in 500 ft., cruise at about 90 mph and has a ceiling of over 20,000 ft.

In addition to their military applications, flexible-wing craft could open a new field of inexpensive sport flying. •



FLEX WING test bed is controlled by moving fuselage forward, backward or sideways. Wing then tilts to new position desired.

MORE '62 CARS!

AMBASSADOR

Mild facelift marks styling changes on the Ambassador. Models include four-door sedan, two- and three-seat four-door station wagons. Wheelbase is down to 108 in. Engine choices are: standard 250-hp V-8 with two-barrel carburetor, optional 270-hp four-barrel power plant.

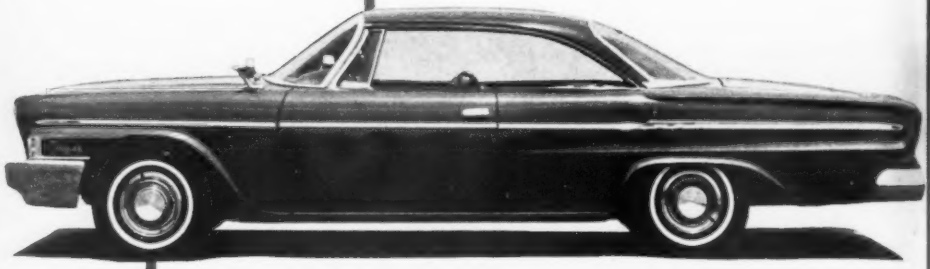
AMERICAN

Known to some as America's original "compact", Rambler promises to be as hot a seller this year as last. Models include a two-door convertible and two- and four-door sedans and station wagons. For $60 extra, the car is available with a no-clutch manual gear shift.

CHEVROLET

The smart Impala sport coupe with redesigned roof line presents a new profile this year. Also new is its 409-cu. in. V-8 engine rated at 409 hp! Chevy line-up of new cars is "biggest ever" this year—32 models. (See Tom McCahill's test of Chevy II this issue.)

'62 CARS!

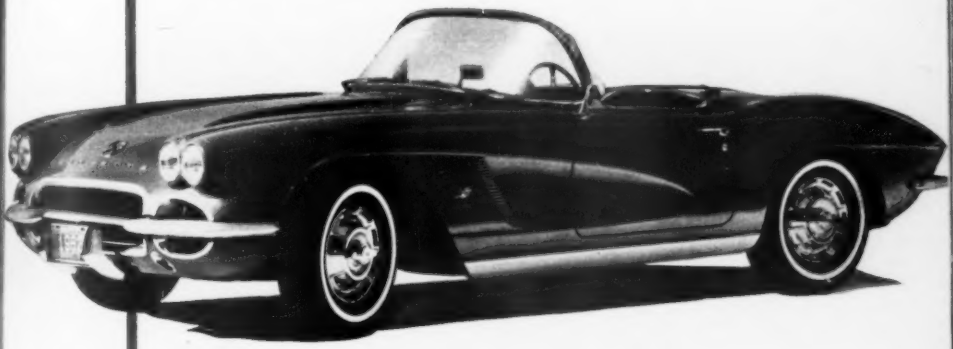


CHRYSLER

Dashing and debonair is a fair description of the '62 Chrysler 300. Priced between the Newport and the New Yorker, the 300 is offered as a two- or four-door hardtop or convertible. Engine: 305 hp; wheelbase: 122 in.; overall length: 214.9 in. The 300 replaces Windsor line.

CORVAIR

Corvair's 500, 700 and 900 Series encompass six models, including a station wagon. Engine is a 145-cu. in. air-cooled job with aluminum cylinder head. The car's wheelbase is 108 in., overall length 180 in., width 67 in. All Corvairs have standard steering.



CORVETTE

Corvette this year boasts a brand new 327-cu. in., 360-hp V-8 engine with optional fuel injection (the 250-hp mill is available also). A new radiator grille configuration is the outstanding styling change for 1962. The car is offered in seven colors and the upholstery in four.

DODGE

Meet the Polara 500, a luxury sport car in the medium-price field. It's available as a hardtop or convertible. The interior features bucket front seats, between-seats console. The engine is a 305-hp, 361-cu. in. mill with a four-barrel carburetor and dual exhaust.

'62 CARS!

FORD

Ford's Fairlane is sized and priced between the Falcon and the Galaxie. Heavily insulated, unitized body will protect passengers from sound and heat. Two engines are available: 170-cu. in. Six or a 221-cu. in. V-8. Two- and four-door sedans are being offered.

STUDEBAKER

This year's Hawk, a sport-styled hardtop, gets its zoom from a 289-cu. in. power plant with dual exhausts. Wheelbase (120.5 in.), length and height have remained the same and front bucket seats continue standard. New body has raised rear roof, no more fins.

IMPERIAL

Elegant and commodious is the new Imperial (longer, wider, higher). Buyers will dig the 32,000 mile interval between chassis lube jobs and the 12,000-mile, or one-year warranty. Engine is huge—413-cu. in. with a four-barrel carburetor and 10:1 compression ratio.

RAMBLER

The classy Classic Six is as pretty as anything around. Her in-line engine displaces 195.6 cu. in. and puts out 127 hp. Neat as a pin and only lightly chromed, this sturdy American Motors entry promises to tug at the purse strings of economy-conscious buyers.

IS THE WHITE HOUSE "E

ONE day recently, as President Charles De Gaulle of France was conferring in his quarters at the Hotel La Perouse in Paris, his son-in-law rose, suspiciously examined a cornice, lifted a carpet and discovered a microphone.

Sometime later, De Gaulle's son-in-law declared that the French President's quarters had been "bugged" by one Roger Wybot, head of France's crack counter-intelligence service.

Wybot denied having anything to do with the job. Nevertheless, he was promptly banished to the boondocks as a lowly inspector of police schools.

The point is, if the French President's private chats could be tapped, what's to prevent the same thing from happening here in the United States?

That such a thing could happen behind the sacred portals of the White House is no longer unthinkable. Look what happened in our embassies abroad —129 wiretaps found in them since 1951. The State Department, understandably perturbed by all this eavesdropping, has asked Congress for $1,546,788 to spend on bug-detection equipment. The experts in bugging are the Reds; most readers will recall how they presented our Moscow embassy with a beautifully carved Great Seal of the United States in which was hidden a wireless mike. Our representatives abroad have come to accept the fact that anything they say, anywhere, is probably being recorded.

The fact is that the Reds have the know-how, the equipment, the contacts and the fanaticism to bug the White House, and a good reason for wanting to do it. Have they succeeded?

For the answer we went to U. E. Baughman, former chief of the U. S. Secret Service.

"What anti-bugging precautions are taken to protect the White House and the President?" we asked.

As usual, the Secret Service—living up to its name—gave away no details. Mr. Baughman merely smiled and replied that the Secret Service "has become alert to all the uses and potentialities of modern electronic devices."

"BUGGED"?

By James H. Winchester

And that was that.

While methods and devices—they're called "sterilizers"—used to protect the White House are secret, some indication of their nature might be gained from the electronic robots that guard the National Archives Building in Washington, D. C. This system, which blankets the 198 stacks where precious documents are kept, is so sensitive that even the shadow of a mouse sets it off.

The heart of the system is a central console, constantly manned, which indicates what is happening in every nook and cranny of the building. Electronic private eyes cross and criss-cross the building's floor space and doors. The passage of anyone through these rays is automatically recorded at the master console and elsewhere, for double protection. If such protection is in use at the National Archives you can wager that similar systems—or better ones—are installed at the White House and State Department.

As for telephones, the President—for anything that might be of a classified nature—uses a unit that can scramble any conversation, outgoing or incoming, garbling it to anyone not using a similar instrument. A similar radio telephone is used by the President aboard his Boeing 707 jet.

But snoop devices are equally wonderful. One of the latest is the "gun" microphone shown at the left. Aimed from an open window, it can pick up and amplify a conversation being held on a street or in a park several hundred feet away. Even the wide-open spaces are no longer safe from listening electronic ears!

Another mike—the "shotgun"—is known to be in use by several government counter-intelligence agencies. It consists of a bundle of aluminum tubes with a large microphone at the back end of the bundle. The tubes are all of the same diameter but of different lengths, ranging from six inches to four feet.

The device looks something like a small lateral pipe organ. To take advantage of the peculiarities of acoustics, this instrument—which can be telescoped for carrying in a bag no bigger than an overnight kit—is built for directional focus. It picks up only those sounds at which it is aimed. With the help of an amplifier, it can even pick up voices through closed windows from a quarter-mile distance.

The old days when telephones were "tapped" by cutting into the wires are gone forever. Today a telephone can be "tapped" by merely applying a strip of metallic conductor paint close to a telephone connection, the paint matching the wall color to defy detection.

Tiny, automatic cameras, remotely controlled by radio—no wires anywhere—can now photograph, through the magic of infrared film, in complete darkness. It's no secret, for instance, that U. S. [*Continued on page* 141]

NEW BABY RENAULT HAS 5 DOORS!

WIDE-OPEN eye opener. Renault's new R4L is airy as an aerie and has been specially designed to navigate over rough ground.

MEET the R4L by Renault of France . . . it replaces their famous 4CV . . . car features permanently greased chassis, sealed joints, sealed cooling system . . . occasional change of engine and differential oil are only lube jobs required . . . a 45.7 cu. in. engine sparks this wheeled bantam . . . wet removable liners permit low-cost overhaul of engine after 60,000 miles . . . low-priced, rugged and with lots of get-up-and-go, the R4L is currently being considered for export. •

R4L is ideal car for outdoorsmen (as well as suburban housewives). With all seats in place it's a four-seater with 17 cu. ft. of luggage space, ample leg room as well.

REAR SEATS, when removed, open a 50-cu.-ft. area that can hold 400 lbs. of goods.

mimi

THIS MONTH MIMI, the girl who can do anything, tests the Norseman, a ladder that can be used for anything. In these pictures you can see some of its many good points. You can fold it up and stow it in a car trunk. It's magnesium, so natch you can carry it easily. See MIMI wash a window on it, on two supporting levels. See her use it as a step-ladder, a sturdy scaffold, an extension ladder. A great tool for pro craftsmen and for home, farm or business use. Norseman, Inc., 2916 Fourth Ave. S., Minneapolis, Minn. $40.

SURVEYOR spacecraft will "mine" moon with geophysical probe (foreground).

MACHINE TO MINE THE MOON

SOMETIME during 1963-65 the United States will soft-land a Surveyor spacecraft on the moon. This 2,500-pound lunar probe—to be built by Hughes Aircraft Co., Culver City, Calif.—will carry four cameras which will send television pictures of the moon's surface back to earth every few seconds. It will also carry a drill designed to penetrate the surface of the moon to depths of 18 to 60 inches and to collect fragments of the moon's crust for distribution to various instruments for analysis. One of Surveyor's cameras will be used to monitor the drill so that earthbound scientists can watch the operation on their TV screens. •

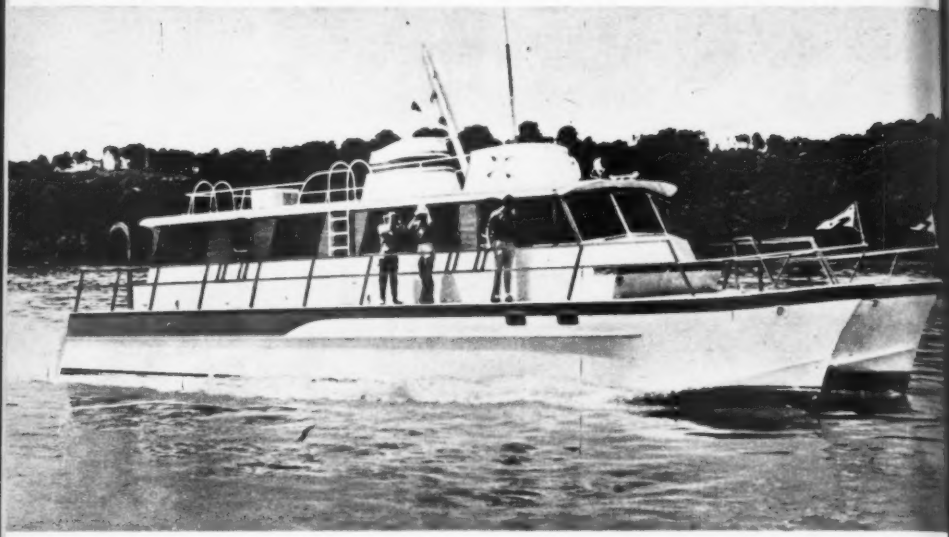
PERSONAL AUTOGIRO, the Skyscooter, now being sold by Saalfeld Aircraft, San Diego, Calif. Craft weighs 275 lbs., has a 250-mile range. Saalfeld sells plans, kits, finished rig.

IT'S NEW!

SUPER CARAVELLE, new French jetliner, will do Mach 2—twice speed of sound or better than 1,200 mph. Details are secret, model appeared at this year's Paris air show.

CONTINUED . . .

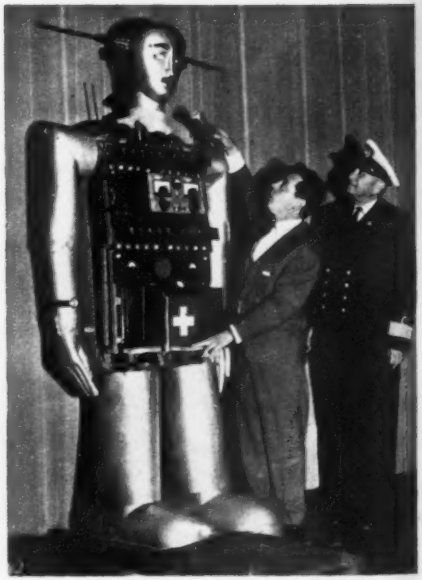
IT'S NEW!



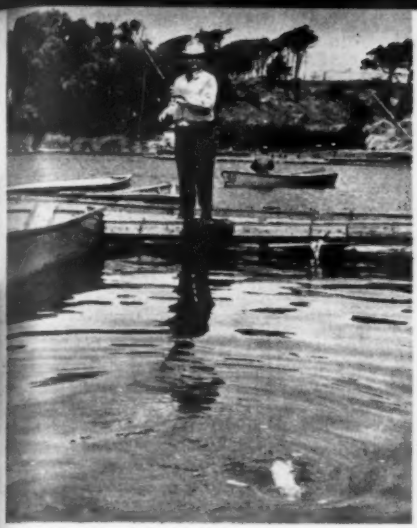
ALUMINUM CATAMARAN, world's largest powered two-hull at 60 feet, zips along the Ohio at 20-25 mph. Twin Gray Marine engines drive it. Aluminum Cruisers, Louisville, Ky., built it.

REVOLVER GRIPS, made of Tenite to fit Colt or Smith and Wesson .38s—those with heavy frames or square butts—house six extra rounds. Jayco Enterprise, Gary, Ind.

ROW-BED shown at trade fair in Rome is no more than an air mattress with a frame for holding rowlocks and oars. The cost in Rome is about $16. As you can see, it's light.

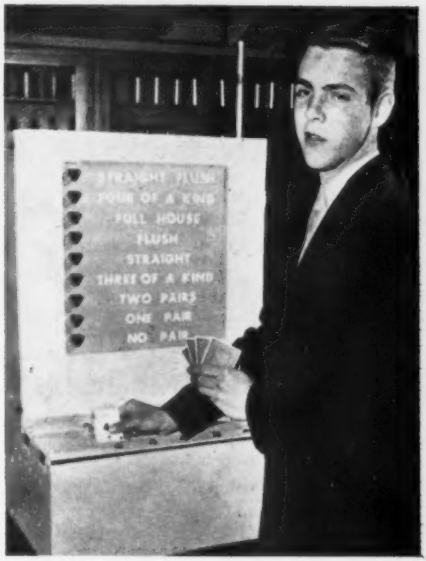


ROBOT called Sabor V by its inventor (in mufti) can dance, smoke, drink, play a harmonica, converse in several languages. Sabor was snapped on U. S.-bound Dutch ship.



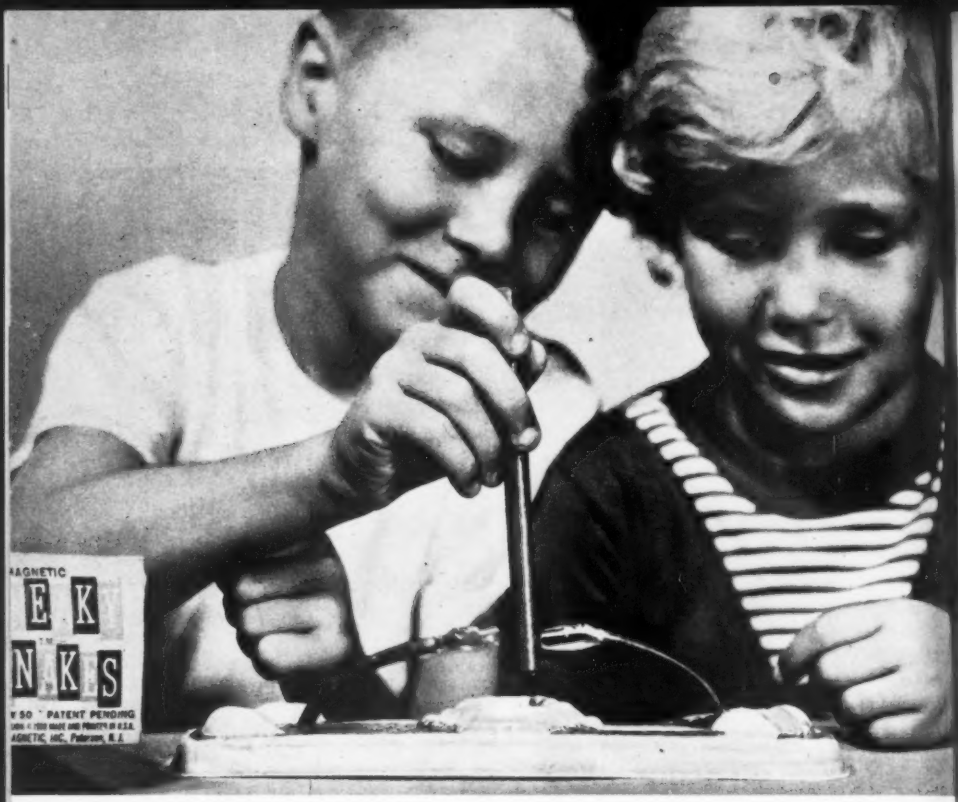
POWERED FISHING is here, sports. Angler above is using the bait-towing device seen close-up in photo at right. Battery-powered torpedo, controlled from shore, triples casting range. Lockheed satellite men made it.

PLASTIC CANTEEN that keeps contents hot or cold is the latest thing for outdoorsmen. Made by M. E. Shaw, Sons, 2526 Daly, L. A.



POKERAC, electronic poker player, is dealt an ace by its inventor, high school student David Dewan, Schenectady, N. Y. It plays a superior game of two-hand, five-card draw.

JUICERATOR extracts juice from oranges or parsley with equal ease, separates the juice from the pulp by centrifugal force. Acme Juicer Manufacturing Co., Lemoyne, Pa.



MAGNET GAME—you try to steal egg without being bitten by snakes—is a big-selling toy.

HOW TO SELL YOUR TOY AND GAME IDEAS

By Harry Kursh

LOTS of people have bright ideas for new toys and games—only a few know how to put them across. That's why there is a national marketing agency to help toy and game inventors make their ideas pay off.

I-S Unlimited, Inc. is the name of the firm. Behind that cryptic identification are two friendly gals named Alice Nichols and Felicia Parker. Their firm is still wet behind the ears but already they have helped more than a dozen inventors to hit the jackpot—some of them more than once.

Noel Stout, a young elevator operator and night drafting student, brought his "supersonic top" to the unpretentious New York office of I-S. Three months later Plakie Toys of Youngstown, Ohio was paying him royalties for his high-speed spinner. Songwriter Gertrude Norman brought in a psychoanalysis game called Malice, now being sold coast-to-coast. Sneaky Snakes, a magnet game with snakes that guard a steel egg as you try to steal it with a magnetic wand, is paying royalties to Alfred Washburn, a business man of Mt. Dora, Fla. Norman Monath, inventor of a word-card game called Bali, has collected close to $10,000 in royalties since bringing his game to I-S. The game may yet become another Scrabble.

It was Bali that started I-S. A few years back Alice Nichols and Felicia Parker saw the game and fell in love

with it. Alice was an editor then, and Felicia an advertising copywriter who had written the brochure for Scrabble. Together they put Bali on the market; after that the idea boys and girls began to flock to them for assistance. So, in addition to selling Bali, they decided to offer marketing services to other toy and game inventors. They incorporated, sold 30,000 shares at $1 each.

At first I-S would work with anyone who had an idea. Now, if they like his idea, they ask the inventor to provide a good model. Models are the most effective device in toy and game selling.

Essentially I-S provides a brokerage service. The inventor pays nothing for handling or consultation until his ideas are sold and the cash comes in. Then I-S takes one fourth of the royalties—a standard fee. In return for this, I-S negotiates the contract, tries to get as much for the inventor as possible.

If this doesn't seem worth the fee, consider the case of an inventor whose game has become a household word. He collects one quarter of a cent per game —because he had no agent. The inventor of Bali gets ten cents on every game sold —because I-S got in there and fought for him.

To keep abreast of things in the toy and game world. Alice and Felicia go to industry fairs, read toy and game catalogues, [*Continued on page* 139]

GAME LADIES Alice Nichols and Felicia Parker and some of the toys they have sold.

SNUGGLE SNAKES are novelty swim rings that double as comic costumes for young and old.

INVENTOR Norman Monath earnestly playing Bali, his own card-word game.

THE '62 CHEVY

Brand new this year is the Chevy II—a model between compact and big-car size.

By Tom McCahill

THE big news at Chevrolet for '62 is a brand-new, smallish offering a little bigger than the Corvair and a little smaller than the Impala. Known in engineering circles (as this goes to press) as the H-35-D, it has also been called, during incubation, the Corsair. At present it is known as the Chevy II. As you can see, it already has had more names than a Siberian con man with a short memory and it's my guess it may have a few more before it's finalized. All you hipsters know what competition could do with a name like Chevy Two—and you can bet your old pawn tickets they'd do it.

Regardless, the new Chevy is this camp's answer to Ford's

NOVA convertible, with six-cylinder mill, is one of deluxe 400 series in Chevy II line.

Built on 110-in. wheelbase, Nova has trim lines that reminded Tom of a small Mercedes.

new small Fairlane. Interior-wise it's as large as standard Chevrolets of just a few years ago; exterior- or outside-wise it's just a Pekingese nose larger than the Corvair. Stand the two cars side by side and there's very little difference but inside, the Chevy II is quite a bit larger.

Chevrolet calls this new bucket a true basic transportation vehicle, low in purchase price and operating cost. Well, so is a bicycle or even a pair of roller skates —so what's the pitch, as they say in church? Let's analyze it first.

The Chevy II comes in quite a few flavors, which include a convertible (which I tested) and a two- and three-seat station wagon and, quite naturally, a sedan. If you give the sedan a real hard look you might suspect that the stylist was not totally unfamiliar with the small Mercedes 220 sedans. The new line can be had in three series: the 100 (the cheapest), the 300 (slightly lootier) and the deluxe Nova 400 (definitely more expensive). There are two engines available: an in-line four and an in-line six. You can get the six-cylinder mill in any of the cars. The four is not available in the Nova series but can be had in either the 100 or 300. These are overhead-valve jobs, brand-new, developing 90 hp in the four and 120 in the six.

The new Chevy II line also features unitized frame and body construction. Incidentally, unlike the Corvair to which I have been comparing the II, this is a front-engine rig. The Chevy engineers have worked some pretty fancy ideas into this new car, such as the single-leaf rear spring, which is tied up with a Hotchkiss drive, and independent coil springs in the front. This combination gives a ride very similar to inde-

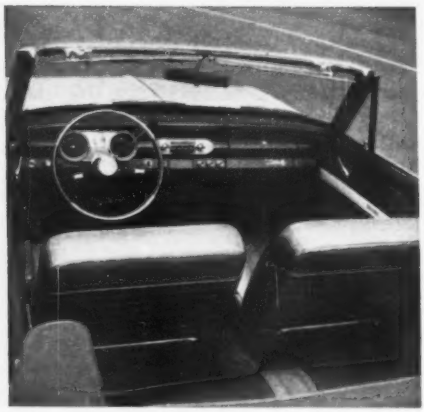
TEST CAR SPECS

MODEL TESTED: **Chevrolet II** (Nova Six convertible)
ENGINE: **6** cyls; **194** cubic ins; **120** brake hp; **167** ft-lbs max torque; **8.5** to **1** compression ratio. Bore **3.56** ins; stroke **3.25** ins. Fuel required: **Regular.** Standard axle ratio: **3.08.** Wheelbase **110** ins; length **183** ins; height **54.5** ins; width **70.8** ins; front tread **56.8** ins; rear tread **56.3** ins. Weight **2,850** lbs. Gas tank capacity **16** gals. Turning circle diameter **NA** ft. Tire size **6.00X13.**
PRICE (without optionals): **NA**
PERFORMANCE: **0-30** mph, **5.2** secs; **0-60** mph, **17.9** secs; **40-60** mph, **8.2** secs. Top speed **91** mph.
All times recorded on corrected speedometer. NA: Not Available at press time.

CORVAIR

CHEVY II

IMPALA

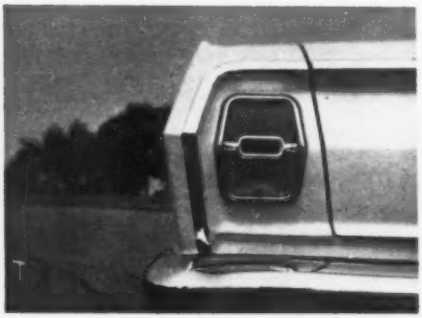


BUCKET SEATS add to sporty look. Series includes four-door wagon, two-door coupe.

pendent suspension all around.

In my test I found the ride comfortable and as soft as a pup's tummy but a bit too sloppy around the hard bends. This bolt pile is mounted on silly 13-inch wheels encased in two-ply tires. Now, as most of you know, the fewer the plies in a tire, the faster the heat is dissipated. In other words, a two-ply tire will throw off heat a lot faster than a four- or six-ply skin. As you also know, on long, fast runs a 13-inch tire will get a lot hotter, regardless of plies, than a 15-incher. With this in mind, which came first—the need for a 13-inch wheel or the need for a two-ply tire? Personally, I'll take cornflakes.

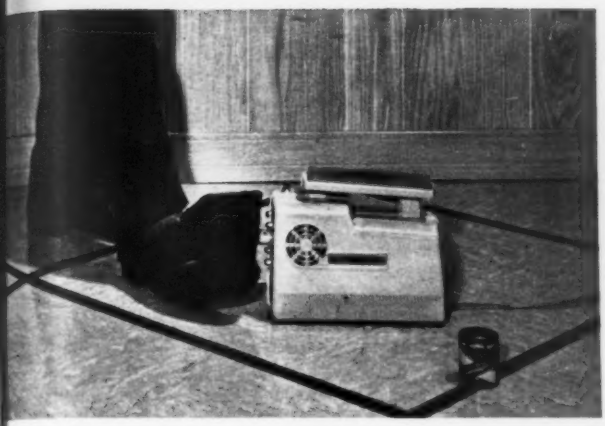
To test the Chevy line Boji, my Black Labrador, and I beat our way through the Turnpike [*Continued on page* 136]



CRISP styling and boxy treatment of the taillights make Chevy II easy to identify.

SINGLE headlights are featured on this newest addition to the Chevrolet line-up.

ELECTRIC SHOE POLISHER



BRIGHT IDEA AWARD MECHANIX ILLUSTRATED

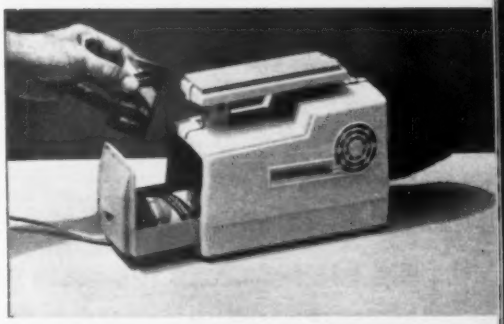
FOOT-OPERATED unit is started with a tap on the foot switch, buffs while you stand or sit.

THE foot in the photo above could belong to many kinds of men. Maybe he's got a Pilsener front porch, and can't bend over to shine his shoes. Maybe he likes the feeling of a power buffer on a leather-shod foot. Maybe he just wouldn't shine his shoes if he didn't have this handy polisher. Maybe he's a waiter carrying a tray. Who, noticing a drop of mayonnaise on his shoe, stops at the kitchen door to remove it before facing his public. In any case, he has paid $30 for it, unless someone has given it to him for Christmas. From Dremel Manufacturing Co., Racine, Wisc. •

FOOTREST, not used while polishing, comes in handy while you're applying shoe polish.

WIN $50

MI will award $50 each month to the first person who tells us of a new and useful gadget that is patented and in production. Manufacturers are also eligible for this award. Pictures and a description should be sent to Bright Ideas Editor, Mechanix Illustrated, 67 West 44th Street, New York 36, N. Y.



ROOMY DRAWER houses the family supply of polish, keeps it near the electric buffer.

THE '62 FALCON

The hottest selling compact bids to keep top place with a brand-new wagon for '62.

By Tom McCahill

AS Flatbush O'Hoolihan says, "A king is a king and the only one who can dispute that is his wife." Falcon is the king of all American compacts, from the standpoint of sales, and as they say in Canarsie, that is a pretty substantial standpoint.

Now, when the pointy-headed clique gets together they not only want facts and figures but also a good bundle of

FALCON SQUIRE has a wheelbase of 109.5 in. and overall length of 184.8 in. Darker band on body is simulated wood paneling.

'62 GRILLE is larger to match height of new front fenders and single headlights.

SIX-PASSENGER Squire has power-operated tailgate window in its standard equipment.

CARGO compartment has 76.2-cu.-in. volume. 105.1-in. floor length with open gate.

TEST CAR SPECS

MODEL TESTED: **'62 Ford Falcon.** ENGINE: **6** cyls; **170** cubic ins; **101** brake hp; **156** ft-lbs max torque; **8.7** to **1** compression ratio. Bore **3.50** ins; stroke **2.94** ins. Fuel required: **Regular.** Standard axle ratio: **3.50.** Wheelbase **109.5** ins; length **184.8** ins; height **55** ins; width **70.6** ins; front tread **55** ins; rear tread **54.5** ins. Weight **2,674** lbs. Gas tank capacity **14** gals. Turning circle diameter **38.8** ft. Tire size **6.50X13.**
PERFORMANCE: **0-30** mph, **5.6** secs; **0-60** mph, **16.9** secs; **40-60** mph, **8.1** secs. Top speed **80** mph plus.

whys and wherefores—so let's see what has made Falcon the sales king.

From the McCahill Laboratory of Applied Science and Useless Information here are our undocumented findings compiled after exhaustive research in saloons from coast to coast. Unlike most other compacts, the Ford Falcon, from the day of its inception, looked pretty much like a regular-sized Ford viewed from a distance. If you happened to be overtaking a Falcon wagon on the highway, for example, it quite often took some time and a much closer look before you could positively distinguish it from a regular Ford wagon. This, in our opinion (which may be as worthless as a plastic nickel), is the principal reason why the Falcon sold so well.

Hard as it is to admit, a vast majority of Americans have a sheep-like tendency that sets them apart fom politicians and the other apes. It has been proven in cities such as New York that if two guys stand one behind the other in front of a locked door they will soon find themselves at the head of a line which extends around the block.

The compact car was a much-needed piece of transportation for many Americans but buying one represented a pretty drastic step for lots of people. Now (follow me closely, Hoiman) in automotive circles the name Ford is about as standard as white milk. Thus, when a prospective buyer was wrestling with the idea of buying a compact, his fears about trying something so new and different were erased when he saw the comfortable old name Ford on the package. Add to this the fact that the package, for all practical purposes, looked like the standard Ford with a slightly smaller chest measurement and he was ready to pull out the checkbook. In other words, I think a lot of guys were afraid the neighbors would think they were too different (or maybe even a little nutty) if they bought a compact. But the Falcon, with its standardized looks, made a very strong appeal. The way they looked at it, they weren't going to buy a "new and different" compact but a smaller standard car. And that, kiddies, is your Uncle Tom's opinion of how Falcon beat the brains out of its competition.

When Falcon was first introduced two years ago, it had a small, 144-cubic-inch, six-cylinder, overhead-valve engine with about enough poop to yank the chest hairs off a Chinaman. In 1960 they came out with a second six-cylinder engine of 170 cubic inches. Both engines are still available: 90 horsepower being claimed for the smaller mill and 101 horsepower for the larger one. [*Continued on page* 137]

TWIRLER is 101-hp job with 170-cu.-in. displacement. A manual choke is standard.

UNCLE TOM reports there's some body lean in hard corners—but not uncomfortable.

PEOPLE WHO DO THINGS

HE HAS A CIVIL WAR ARSENAL

ONCE it was the descendants of Civil War soldiers who had mementos of the great conflict around the house; now it has become a national hobby to collect arms, caps, buttons and other military oddments of the War Between The States. Norman Flayderman of Greenwich, Conn., is an avid collector himself who has made a profitable sideline of selling weapons and other war mementos.

The son of an antique dealer, Flayderman became interested in collecting guns at an early age. While working for RCA and attending Reserve Officers meetings in Camden, N. J., he decided to go into collecting weapons on a large scale. Bit by bit he acquired collections from private individuals and from dealers until today his shop in Greenwich is a veritable arsenal. Besides the weapons he also has battle flags, regimental drums, presentation swords and pistols, medals, uniforms. Many of these are one-of-a-kind items that can scarcely be priced. The presentation swords are more jewelry than weapons—many have hilts encrusted with precious stones. He also has a complete collection of Kentucky rifles, all dating from 1770-1830. Flayderman mails his relics to buyers throughout the country.—*H. G.*

GUN MAN Flayderman with some of the guns in his catalogue. Below, pretty pistol-packer with Union Army sidearms.

MULTIPLEX STEREO is a striking new advance in broadcasting which will allow you to receive programs in full, rich stereophonic sound by tuning in a single FM radio. Some stations around the country are already broadcasting multiplex programs. Many more will be doing so very soon. Owners of multiplex receivers will be getting the naturalness and clarity of stereo records from their radios. Multiplex brings in new perplexities, however. The biggest problem is the choice hi-fi and stereo addicts must face. Should you convert to multiplex? Will it make your present equipment obsolete? To clear the air and to give you the information you'll need, MI answers these and some other commonly-asked questions.

BIG NEWS FOR RADIO LISTENERS . . .

ALL ABOUT MULTIPLEX STEREO

By Ken Gilmore

FIRST, just what is stereo sound?

Stereo—leaving out for a moment the multiplex part—is a better system introduced several years ago for recording and reproducing sound. It's based on the fact that we listen to sounds with two ears and consequently can tell which direction each sound comes from. Stereo recording gives a new naturalness to recorded music by imitating this "two-eared" hearing. A stereophonic recording is made by putting two microphones in front of an orchestra—one on either side. The separate sounds picked up by the microphones are amplified through separate amplifiers, then sent to a recording machine. Signals are not mixed but recorded separately on different parts of the record groove or on opposite sides of a tape.

Your stereo record player or tape machine detects the two original signals, and sends each one to a separate loudspeaker. You sit in front and between the two speakers and hear a re-creation of "two-eared" sound. The music has much of the naturalness and "live" quality it had in its original performance. You can tell which direction the music is coming from—where the various players are seated in the orchestra—and you get a feeling of depth, of clarity, of brilliance you hear in no other system of recording.

What is multiplex stereo?

It's a system for transmitting two-channel stereo programs from a single FM radio station without the separate channels becoming scrambled in the process. One stereo signal rides along on the radio wave just as it does in ordinary broadcasting. Then, with the help of a little electronic trickery, the other signal hitch-hikes piggyback on the same wave without getting tangled up with the first one. Multiplex stereo is usually called MX.

How can I listen to MX?

Equip your FM receiver with a multiplex adapter or buy a new set with the adapter already built in. The adapter is a decoder which separates the stereo signals, then sends each one to its own loudspeaker.

How much will an adapter cost?

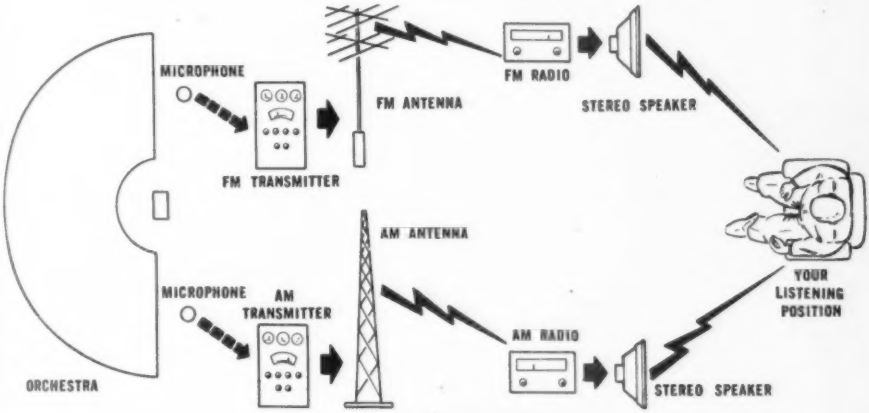
Twenty to 100 dollars, roughly. To use an adapter you must already have a basic stereo setup with separate amplifiers (or a stereo amplifier) and speakers, plus a regular FM tuner. If you start from scratch, figure that a stereo set equipped to receive MX will cost about $30 or $40 more on the average than a stereo rig without adapter. Basic stereo costs anywhere from 100 bucks for the simplest to several thousands. Hi-fi catalogs and your local dealer can help.

Is it better to add an adapter or to start from scratch?

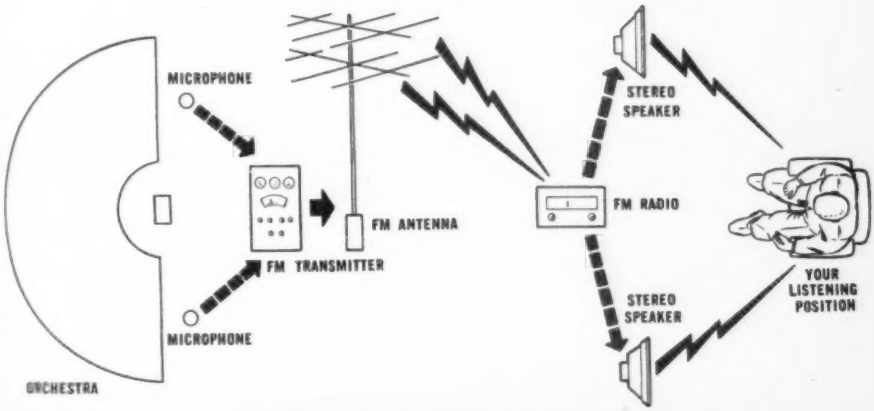
If your present rig can play stereo records, just add an MX adapter to your present FM tuner or add a new FM tuner equipped for MX and you're in business. If, on the other hand, you have only a regular FM radio—say a table model—you would probably do better to start fresh.

Why do adapters vary so much in price?

Some have internal power supplies, others take power from the tuners they're used [*Continued on page* 142]



OLD SYSTEM OF STEREO BROADCASTING



NEW SYSTEM OF MULTIPLEX STEREO BROADCASTING

OUTDOORS
with
W. Scott Duncan

CLEANED and skinned, this deer is ready to be quartered.

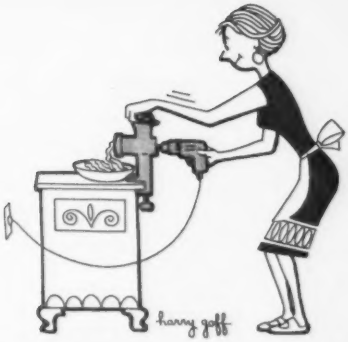
HOW TO FIELD-DRESS A DEER

"ENOUGH fine deer meat is spoiled each year by hunters to feed every man, woman and child in Washington, D. C., half a pound of steaks, chops, roasts and stew meat four times a week for more than two years."

Mike Watson, a butcher from a large midwestern city, made that statement as we were filling up at a gasoline station along a busy Pennsylvania highway one warm November afternoon. We were watching cars zip past with fine deer strapped to their fenders, hoods and cartops—all exposed to the heat of the engine and sun, and to dust.

I decided then and there that my next article would deal with the proper treatment of this [*Continued on page* 147]

FLUORESCENT MAPS for people who travel back country roads in unlighted vehicles at night. Martin McNamara, Danbury, Conn.



MEAT GRINDER that could be powered by portable power drill would be a low-cost labor-saver. Duane Dawson, Kansas City, Mo.

UMBRELLA COVERS that snap on and off in a trice—for quick replacement when they begin to leak. John Stanley, Erie, Pa.

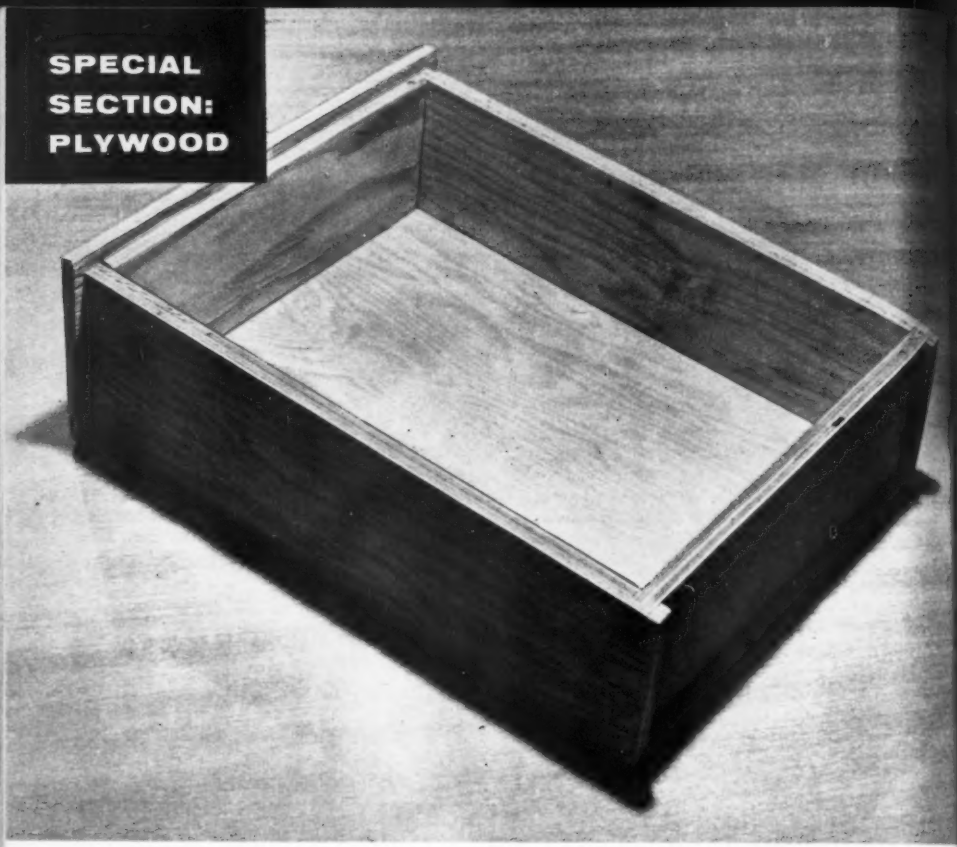
INVENTIONS WANTED!

Is there a gadget you think should be invented? If so, send its description on a postcard to Inventions Wanted Editor, MECHANIX ILLUSTRATED, 67 West 44th St., New York 36, N. Y. Each one printed will be awarded $5. Entries not selected cannot be acknowledged or returned.

KIT BICYCLES so boys earning money to buy bikes can earn part of it by assembling their own. Daniel Lesher, Ann Arbor, Mich.

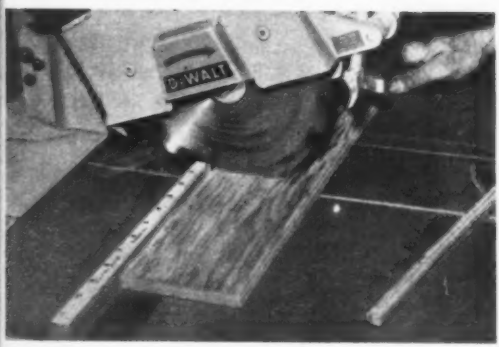
CLOTHESLINE CLEANER that cleans line as it runs through—for a cleaner wash. F. P. A. Berger, Regina, Saskatchewan.

SPECIAL SECTION: PLYWOOD



PLYWOOD, modern glue and simple butted and rabbeted joints produce a sturdy drawer.

HOW TO MAKE PLYWOOD DRAWERS

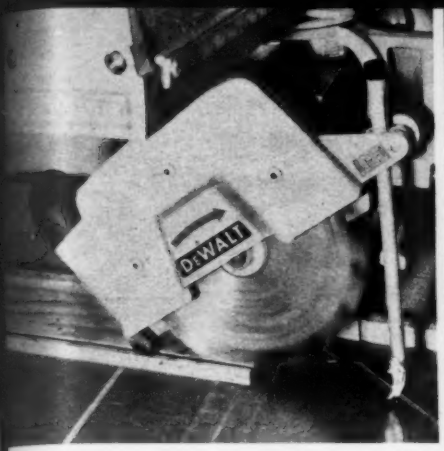


RIP sheet plywood to proper width, then cut off lengths for front, back and sides.

IN the old days, when solid wood and inferior glues were used, drawer joints had to be dovetailed if they were going to stay together long. Today, with the strength of plywood and the new glues, simple butt and rabbet joints will make a drawer strong enough to withstand all the punishment it gets.

If you have only a hammer and a sharp saw with 10 to 15 teeth to the inch, you can build fine plywood drawers. The job will be easier and quicker with power tools but the result won't be any stronger or better looking than a careful job with hand tools.

A simple drawer is easily made with butt joints. Use at least A-B grade ply-

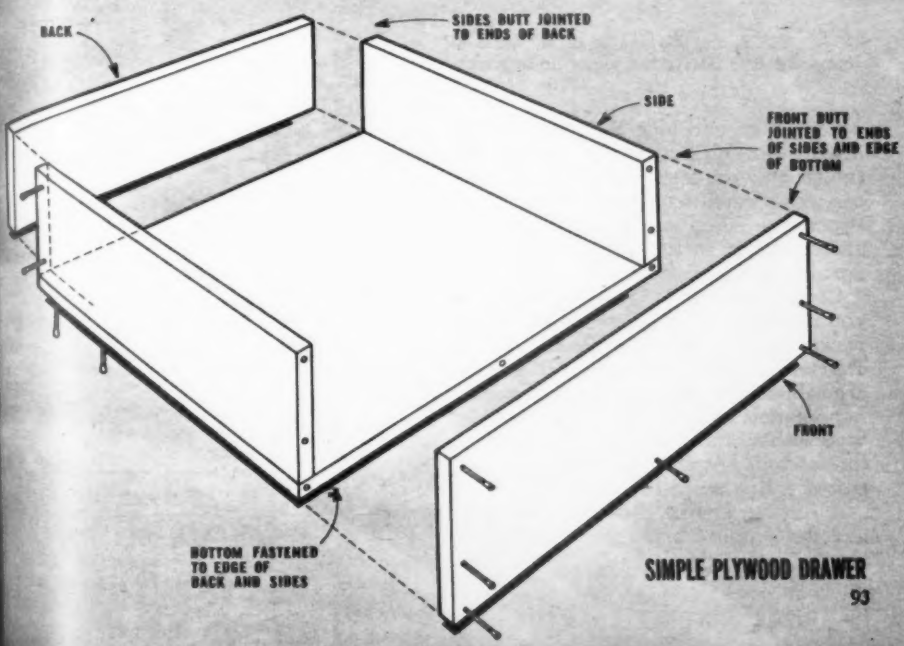


GROOVES for bottom of drawer should be slightly wider than thickness of plywood.

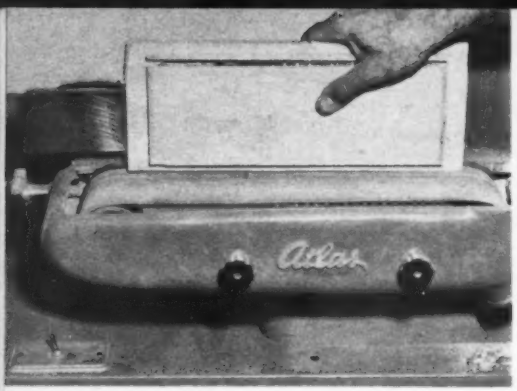
CUT the grooves by making a few passes with the blade if you lack a dado cutter.

wood and, depending upon the size of the drawer, use thicknesses as shown in the chart on the following page. When the pieces are cut, assemble them with glue and nails as indicated in the drawing below. The sides and back are butted against the top surface of the bottom with the back fitted in between the sides. A front panel is then attached to cover the edges of the sides and bottom. All nails are counterset slightly and the holes in the front panel are filled with wood dough and sanded smooth before finishing. Something to consider in building any plywood drawer is that it will slide easier if the grain in the outer plies of the sides and bottom runs from front to back.

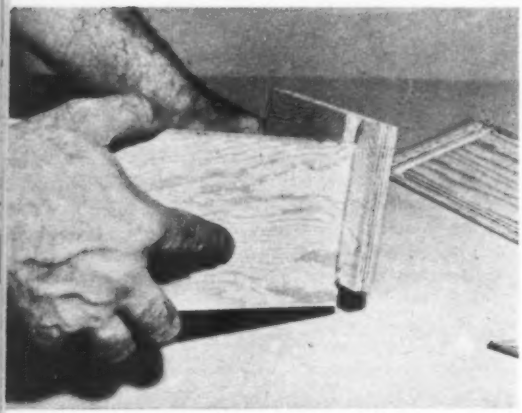
The front of the simple drawer fits flush with its case. You can refine the



SIMPLE PLYWOOD DRAWER



SMOOTHING all the rough edges of the plywood is quick work with belt sander.



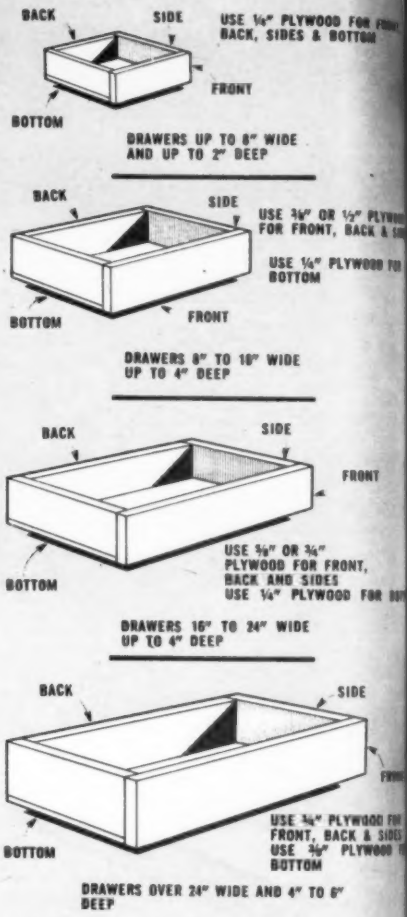
TRIAL CUTS can be made in a piece of scrap wood to determine exact dado width.

construction and hide the gap between the drawer and the case by building up the front with a second panel. In this case, the inner front panel fits in between the sides and the outer one is glued over it so that there's a ⅜-inch lap all around.

Construction with power tools allows you to make rabbet joints for the front, back and sides and cut a slot to take the quarter-inch plywood bottom. The sides are rabbeted to take the bottom and the back panels and the front is a built-up type with a rabbet in the inner panel for the bottom. Again, assembly is completed with glue and screws.

A drawer has to slide on something and the simplest arrangement is a box

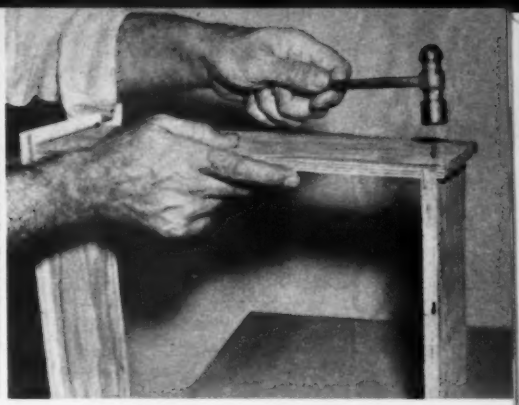
PLYWOOD DRAWERS
ASSEMBLED WITH NAILS AND GLUE



PLYWOOD THICKNESS	BRAD AND NAIL SIZE
¼"	¾" TO 1" BRADS
⅜"	3d (1¼") OR 4d (1½") FIN. NAILS
½"	4d (1½") OR 6d (2") FIN. NAILS
⅝"	6d (2") OR 8d (2½") FIN. NAILS
¾"	6d (2") OR 8d (2½") CASING NAILS

Note: Place Nails Not Over 4" Apart

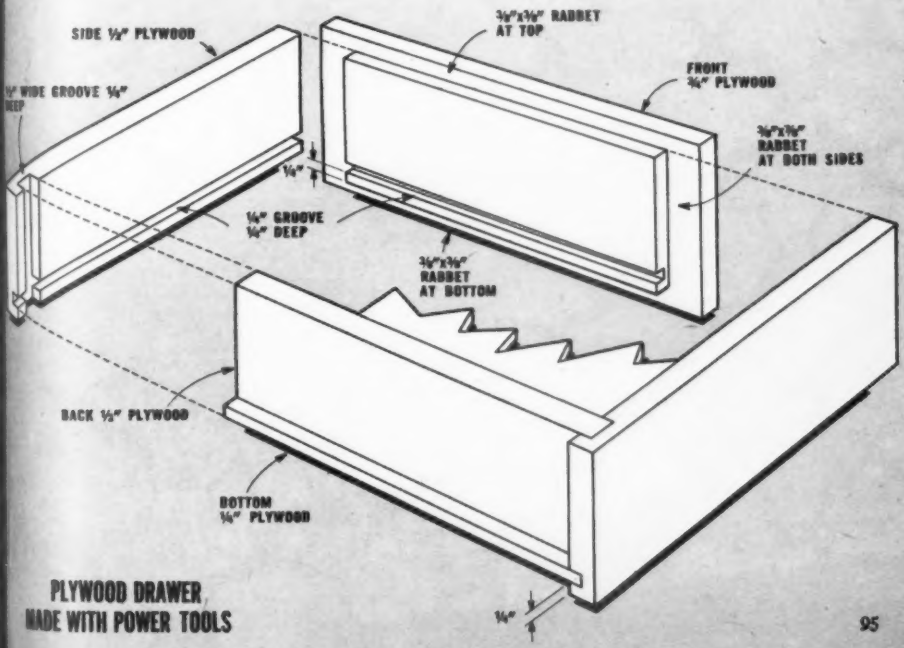
WHITE GLUE which sets fast and dries clear is recommended. Apply it sparingly.



NAILS are used at all joints. Counter-set heads and fill holes in front panel.

sliding on a shelf. Another method is to let the bottom extend about $\frac{5}{16}$-inch on the sides and slide in grooves in the sides of the case. The grooves may be routed or built up with two strips of wood glued and nailed in place. A variation is to have the grooves in the drawer and a single strip on each side of the case.

Drawer stops are needed if you want to keep the drawer from coming all the way out when opened. For this, you can use screws which slide in slots. The slots are routed about ¾-inch below the top of the drawer in the sides of the case and extend to about an inch from the front of the case. No. 12 roundhead screws are driven into the sides of the drawer at the rear to mate with the slots, the heads being allowed to project a quarter of an inch. Another method is to screw blocks to the top inside rear of the drawer so that they'll catch the edge of the case opening when the drawer is pulled out. The screws allow removal of the blocks if it's ever necessary to take the drawers out. •



PLYWOOD DRAWER MADE WITH POWER TOOLS

WHAT YOU CAN DO WITH

Plywood Grilles

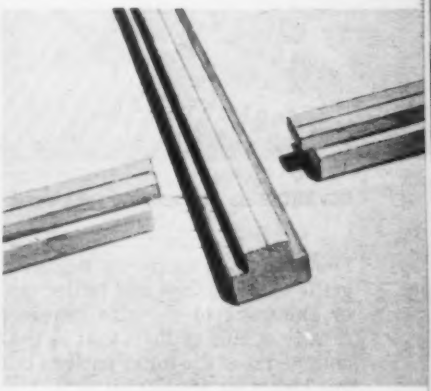
Modern treatment of a traditional device brings useful refinement into the home.

By George Daniels

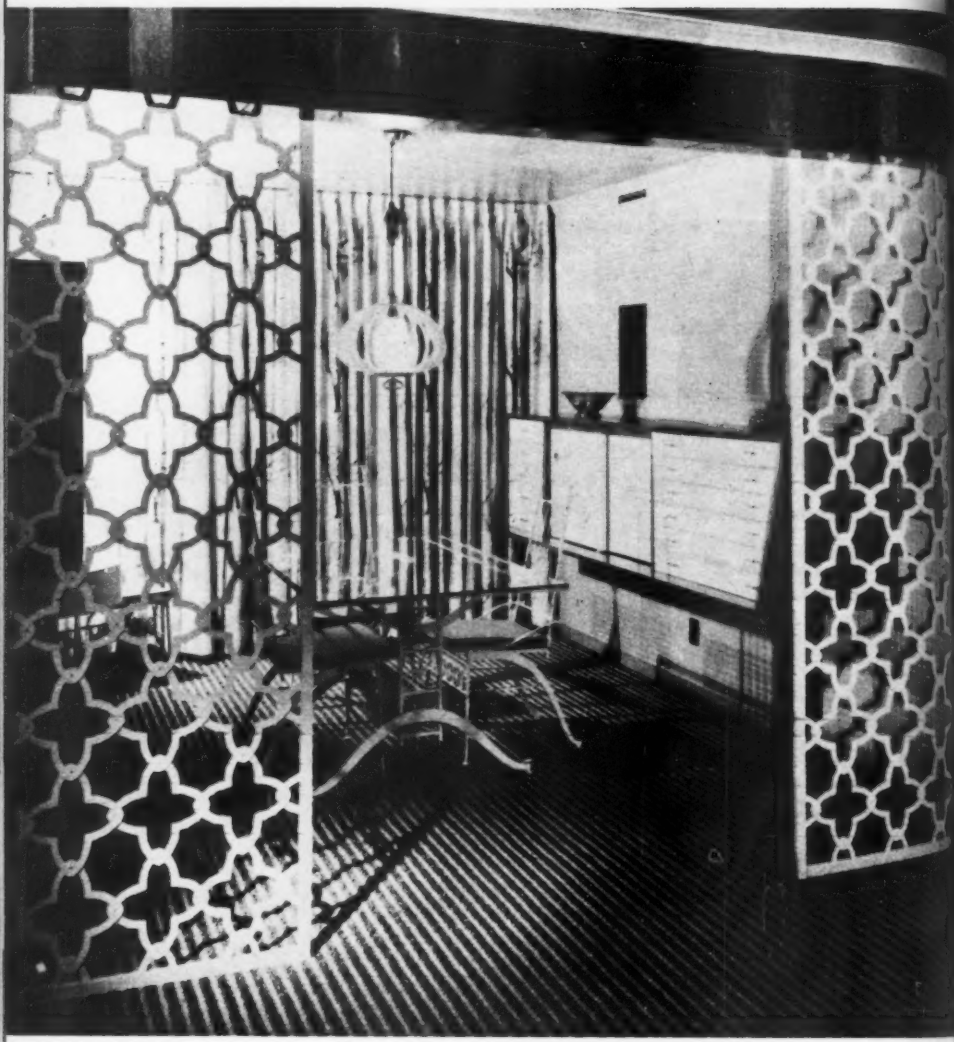
WHAT is it about grille work that has made it a popular form of decoration the world over since civilization began? The key seems to be the element that is always constant in any grille, independent of the material used or the way it is shaped. That element is simply light, or space. Light is shaped into pieces by the material from which the grille is made resulting in a compromise between a solid and space. The high proportion of light in a grille makes it a most effective room divider, dividing space physically without reducing the feeling of space. In a modern house this type of a divider can be used vertically to separate the dining area from the living room or horizontally as a dropped ceiling to change the proportions of a room.

One of the most interesting types of plywood grille for vertical use is the Expand-a-Grille manufactured by the Inter-Grille Mfg. Co., 519 Gwynn St., Babylon, N. Y. The cross pieces are joined with tiny brass eye-

DROPPED ceiling has grille backed with plastic, allowing light to pass through.



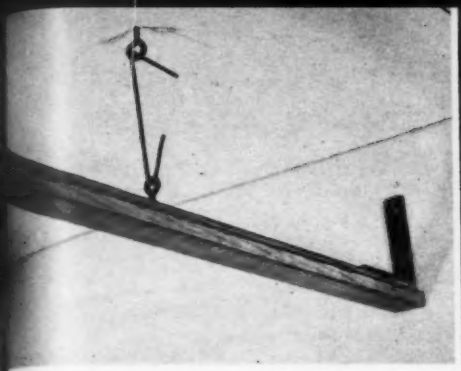
CROSS pieces, end-tongued to rest on moldings, support ceiling panels.



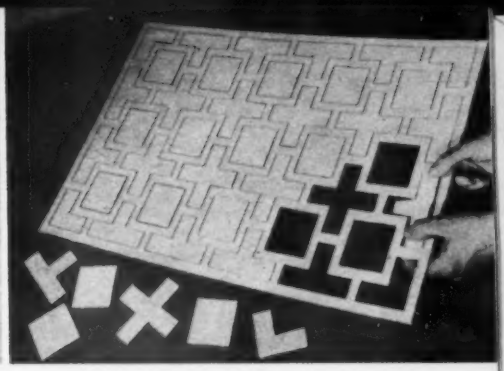
DIVISION is attractively achieved by Expand-a-Grille which adjusts to required size.

lets which act as pivots permitting the grille to be pushed and pulled up, down or sideways to the size required. The beauty of this grille is that as the size is changed so is the inner pattern but without losing its regularity.

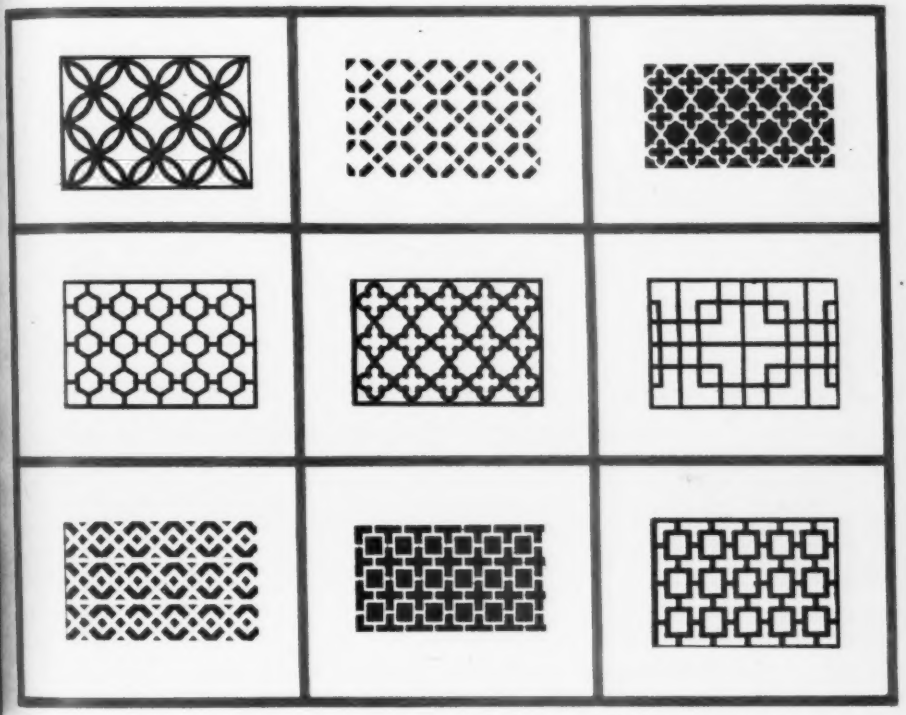
The most commonly used type of grille is the die-cut plywood panel obtainable at lumber yards. It can be used vertically and is also highly suitable for dropped ceilings because it comes in 16x24-inch panels designed to match stud and rafter spacing. A dropped ceiling in a small room can be supported on T-moldings cut from 1x2 stock. The shoulder on which the grilles rest



T-MOLDING running length of ceiling is installed with corner angles and wire links.



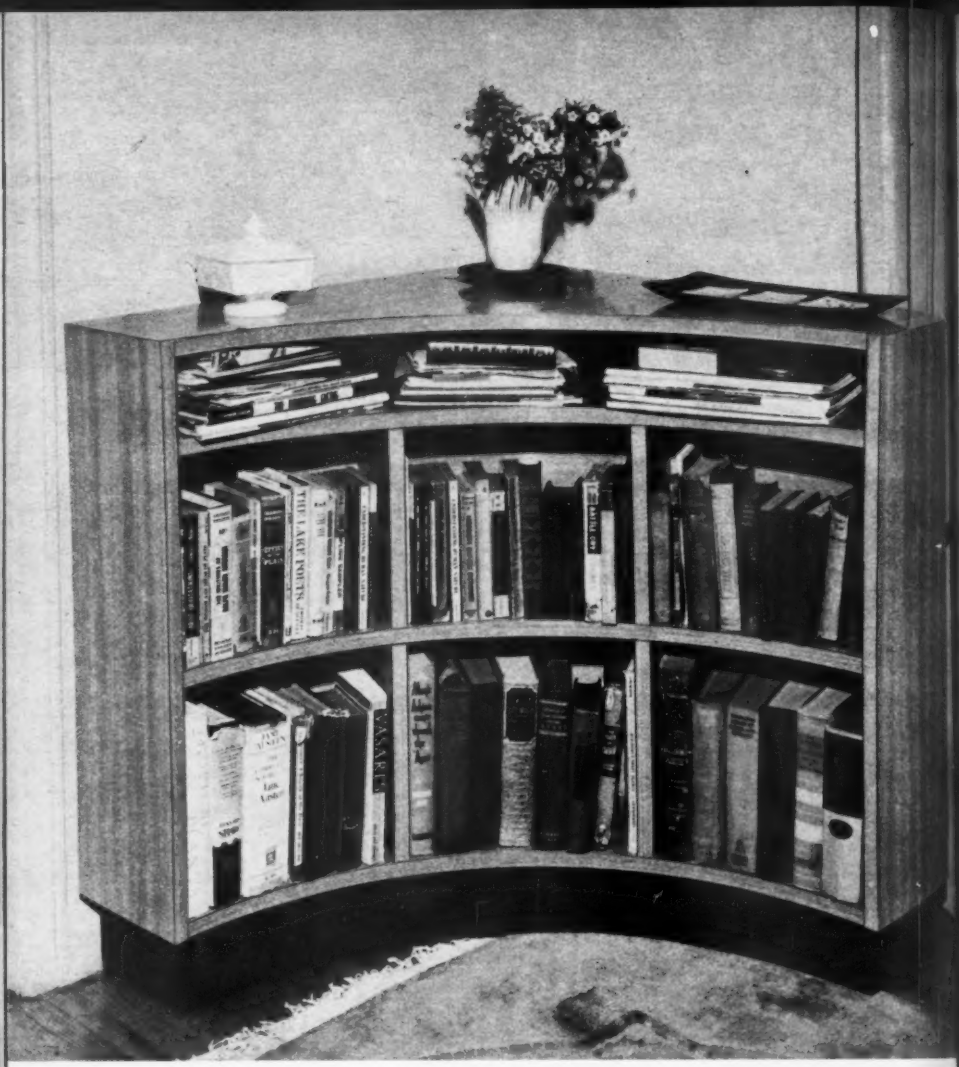
CUT-OUT sections from die-cut grille are removed by pushing from the deep-cut side.



SOME of the many grille patterns which are available commercially.

should not be more than a quarter-inch wide otherwise it will conceal the decorative grille rim. The molding consists of main lengths and the cross pieces (end-tongued as shown in the photo) which they support.

Mount the main lengths (as shown) with a corner angle at each end. Use the screw eyes and wire links at four-foot intervals. Don't set them close or they will interfere with the placing of the grilles and don't worry about the load they have to take. The ceiling panels shown including plastic sheets weigh less than 14 ounces each. A variety of plastic is avail- [*Continued on page* 132]



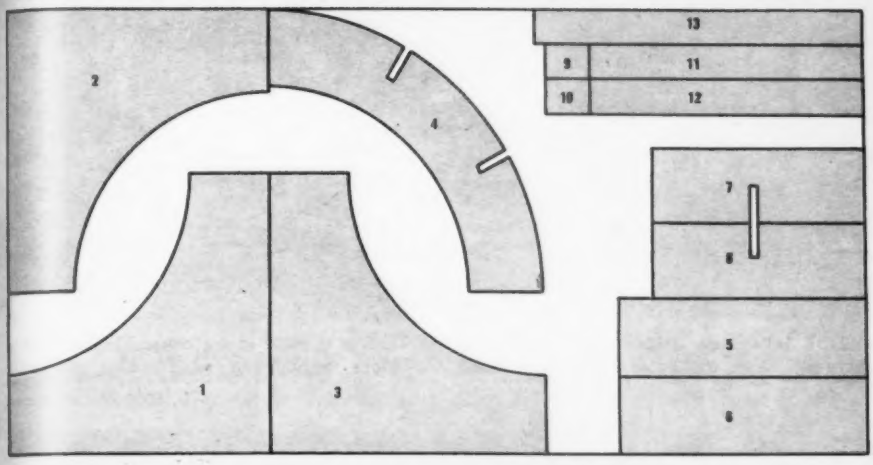
Curved Bookcase

Trouble-free Formica combined with plywood are used in the construction of this elegant bookcase designed to nestle into a corner of a room.

By John Michaels

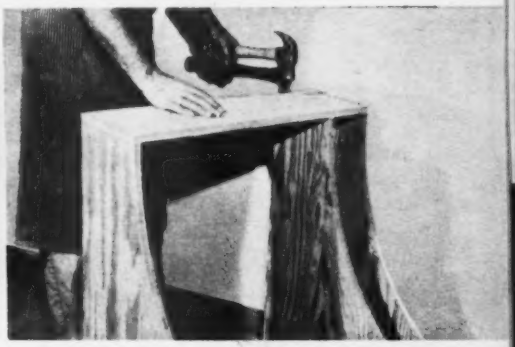
THIS curved bookcase fits snugly in the corner of a room and it certainly is more "usable" than the run-of-the-mill type sold in furniture stores. Two vertical dividers keep the books from toppling and eliminate the need for bookends. The upper shelves are designed to take standard size books while the lower shelves are slightly higher to accommodate the taller books. The four-

LAYOUT OF PARTS ON 4x8 FT. PANEL

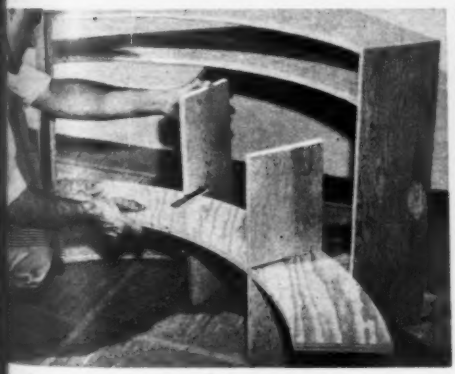


WHITE areas indicate waste stock. Numbers refer to parts on drawing, page 103.

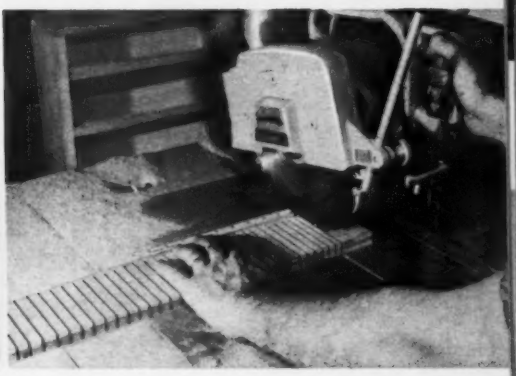
FIRST STEP: Cutting the curved sections out of ¾-inch plywood with a band saw.



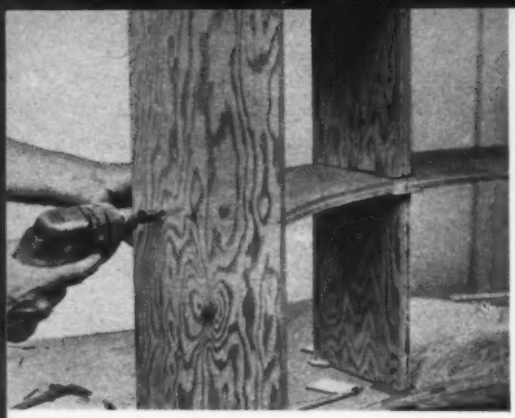
AFTER cutting out all parts, the bookcase is temporarily assembled with nails.



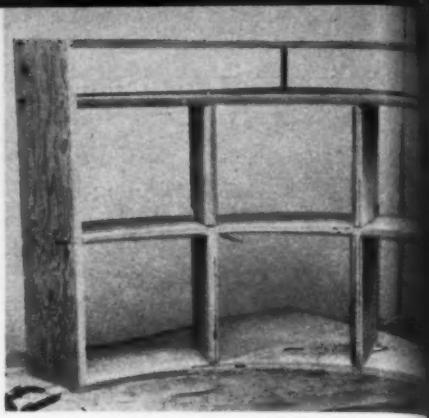
THE NOTCHED shelving, cut as per the drawing, is also installed at this time.



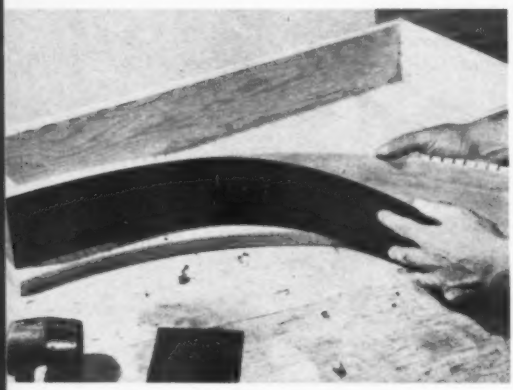
A SERIES of partial cuts, ½-inch apart are cut into base to facilitate bending.



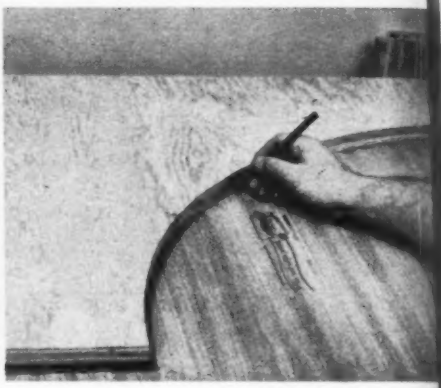
PILOT holes are drilled for the 1½-inch screws. Then all holes are countersunk.



THIS is a view of the assembled bookcase before application of Formica laminate.

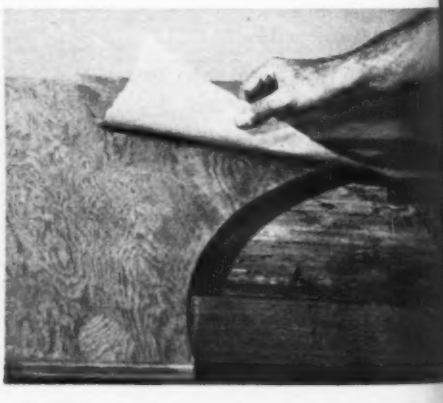


APPLYING a strip of black Formica to the base. Note saw cuts in base for curving.



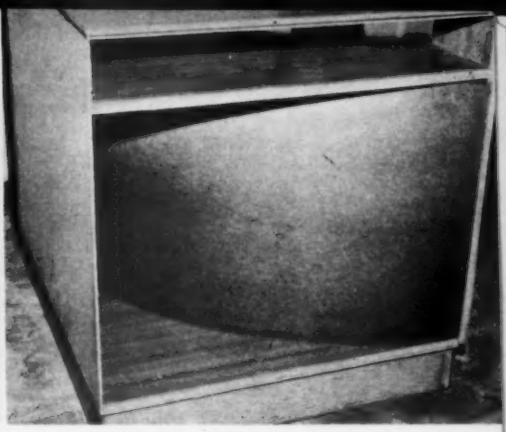
A CUT OUT curved section is used as a pattern to mark the Frost Walnut Formica.

APPLYING contact cement to the matching surfaces of the Formica and the plywood.



KRAFT paper is used as a test. If paper sticks, cement needs more drying time.

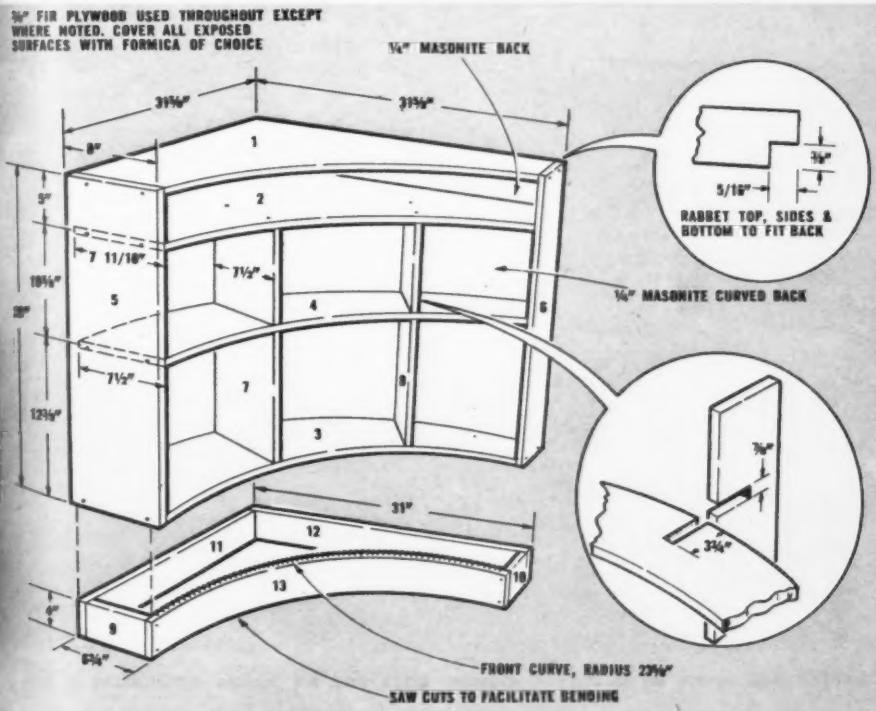
THE SIDES and the top are the last pieces to be laminated. Excess Formica can be trimmed off with a router or with a file.



VIEW from rear showing curved section of Formica forming the back of the bookcase. It is reinforced with ¼-in. Masonite.

inch full depth shelf is designed for holding newspapers and magazines. Laminated with Frost Walnut Formica, the bookcase is very attractive and will add to the decor of any room.

Begin by laying out all the sections on a ¾-inch, 4x8-foot plywood panel. To conserve material, interlock all curved sections. The first drawing shows how to lay out the parts on the plywood board. The curve is drawn with the aid of a beam compass. To make a simple beam compass, take a thin strip of wood and at one end [*Continued on page* 108]



CURVED BOOKCASE CONSTRUCTION DETAILS

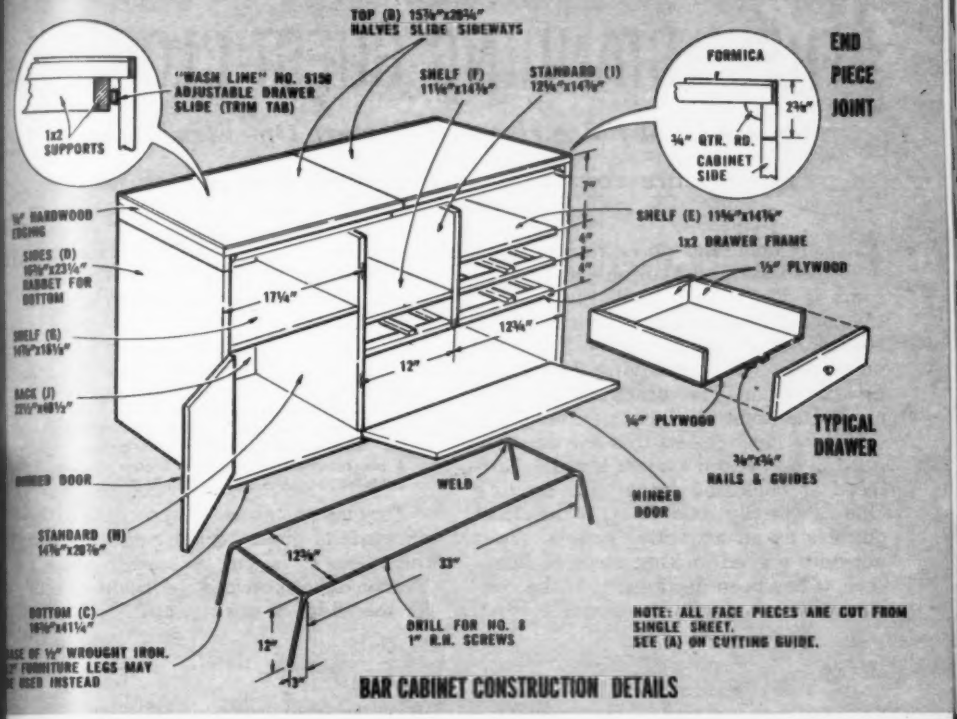
BEVERAGE SERVER

ONE of the chief pleasures of entertaining is to partake of refreshment and conversation with one's guests. Too often the good host misses this opportunity because he is fully occupied maintaining a thirst-quenching shuttle-service between the living room and the kitchen. This cabinet is designed to make these refill trips unnecessary. It is also a handsome piece of furniture which can be finished to suit any decor.

The bar cabinet is made entirely of fir plywood. When marking out your panels according to the cutting diagram be sure to allow for the width of the saw cut between adjacent pieces. First saw out all pieces and true-up cut edges with fine sandpaper wrapped around a block.

Next rabbet the inside bottom edge of the side pieces (D) to take the bottom piece (C). Then assemble sides, bottom

CABINET with space for decanters, glasses, trays and ice makes entertaining a joy.



BAR CABINET CONSTRUCTION DETAILS

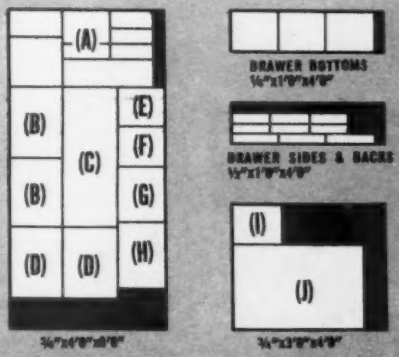
and back (J), gluing and nailing all joints. Install standards (H) and (I), shelves (E) (F) (G) and the drawer frames. Now inset the three panels which are fixed across the top of the cabinet's front. These are cut from the top of (A) and from left to right measure 8¼x17¼, 10¼x12 and 6¼x12¾ inches.

Hardware supports and end-pieces are glued and nailed to each half of the top (B). After gluing sheets of suitable Formica to these top panels with contact cement, trim it to size and glue on ¼-inch hardwood edging. Assemble drawers on which slide on rail and guides made from ⅜x¾-inch pieces. Check the fit of the two doors cut from (A) and install them with appropriate hinges.

Now the cabinet is ready for the finishing process. Fill nail holes, smooth all joints and round sharp corners with a sanding block. Prime the cabinet with undercoat, sand lightly and apply at least two coats of semi-gloss enamel varying the colors of the panels.

Design by Douglas Fir Plywood Association

Install sliding tops with the drawer hardware indicated. Attach pulls to drawers and doors and fix the cabinet on a wrought iron frame or on twelve-inch wooden legs. Stock up with your favorite beverages and plenty of ice and you are ready to entertain in a manner which will be most appreciated, both by your visitors and by yourself. •



BAR CABINET CUTTING DIAGRAM

FREE - STANDING GUEST CLOSET

Grooved and flat surfaces of Texture One-Eleven and Plypanel are combined in this room-dividing closet.

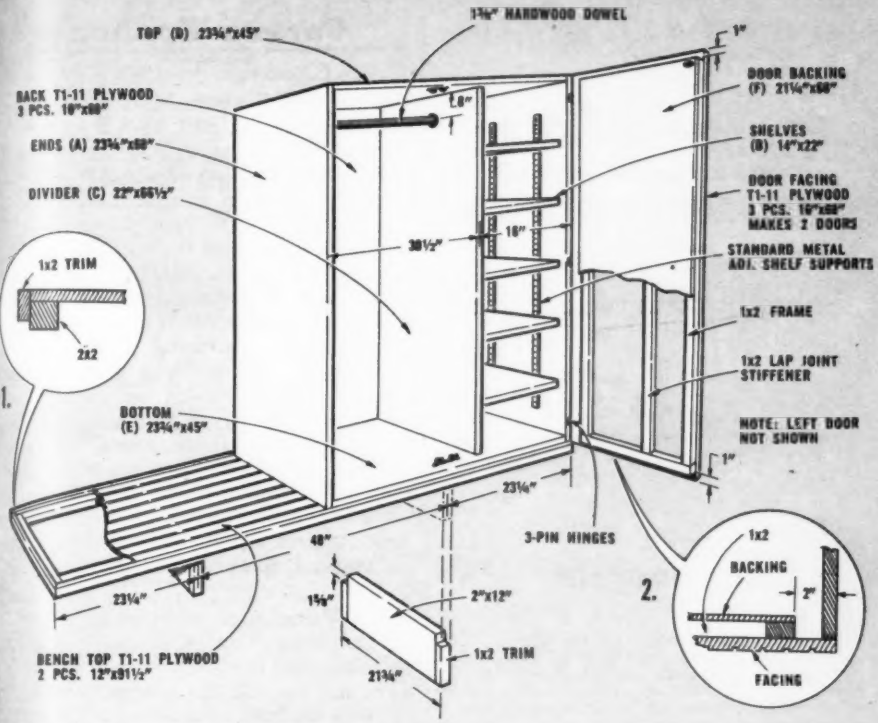
IF your home has no entrance hall or if the closet most suitably shaped for coats is down the passage and around the corner from the front door then this free standing model may be just what you need. When receiving guests it is especially handy as wraps can be taken care of as soon as visitors enter.

Unlike most closets this one does not need to be backed against a wall. Surfaced at back and front with Texture One-Eleven plywood (T 1-11) the closet doubles as an attractive screen. It is not only a good-looking piece of furniture, it has been designed to make construction as simple as possible. All joints are made with glue and nails.

In addition to the PlyPanel shown in the cutting diagram the materials you will need are:

8 sheets of 16-2 (16x96 inches) T 1-11.
50 ft. of 1x2 for stiffeners, edging.
28 ft. of 2x2 for bench frame.
4 ft. of 2x12 for bench legs.
2¾ ft. of 1⅜-inch dia. hardwood dowel.
20 ft. of adjustable metal standard.
6 pin hinges, 2 door pulls, 4 door catches, nails—2½-inch common, 2-inch finish, glue.

First cut the plywood according to the dimensions given. When marking out the pieces to be cut be sure to allow a quarter-inch between adjacent pieces for the width of the saw cut. With their

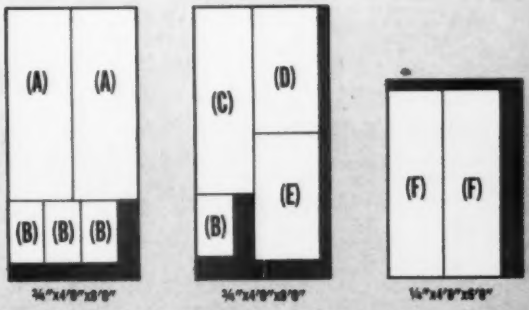


ENTRY CLOSET CONSTRUCTION–DETAILS

front edges on the floor attach sides (A) to the top (D) and bottom (E) and then install the divider (C).

The back and the doors at the front are each made up of three panels of Texture One-Eleven. To make the back, trim the lap from one edge of two panels then fasten all three in place with the trimmed edges on the outside. Begin the doors in the same way, trimming one edge off two panels. Rip the third panel in half and nail 1x2 stiffeners along the back of the ripped edges. These narrow pieces will be the inside panels. Lap join each to its wide panel, fasten stiffeners behind joints, at top and bottom one inch from the edge and along the hinged edge (detail No. 2 in drawing). Attach plywood backing (F). To complete the closet install the door and shelf hardware, the dowel rod and shelves.

The bench top is ripped from two pieces of Texture One-Eleven. Fastened underneath at the edges is a 2x2 frame trimmed with mitered 1x2 (detail No. 1). The legs, made from 2x12 also trimmed with 1x2 are then fixed in place. •



ENTRY CLOSET CUTTING DIAGRAM SHEETS ARE PLYWOOD PLYPANEL A-B

Design by the Douglas Fir Plywood Association

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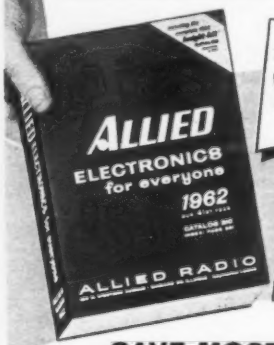

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Curved Bookcase

[*Continued from page* 103]

place a small V-notch. Measuring from the bottom of the V, drill a small hole at the opposite end of the strip to the radius desired. A push pin serves as a pivot. To use, place a pencil in the notched area and scribe an arc.

When cutting out the curved sections it is advisable to use a wide blade in the band saw. This will produce a smooth cut eliminating the waviness that is often the result of using a narrow blade.

After all pieces have been cut and sanded, assemble them temporarily with finishing nails driven part way in. These will be removed later when the unit is screwed together. Since the rear of the case will be unsupported until it is completed, place several cleats at the rear running from top to bottom. Now drill and countersink holes for the 1½-inch flathead screws.

The Formica is laid out in a manner similar to the plywood, however care must be taken that the grain runs in the proper direction for all the pieces. Use a fine toothed blade in a saber saw for cutting out the sections and be sure to allow extra material around the edges for trimming.

Lamination of the pieces must follow a definite pattern. The curved base is done first using black Formica. Next, the ¾-inch edges are covered. This is followed by the main pieces. The outside edges and top are last, after assembly. If you are working indoors, it is a good idea to use Safe Bond Contact Cement. This is non-flammable and can be used safely in the house. Coat both surfaces to be bonded and allow to set. If the wood is porous, give it two coats.

Use extreme care before placing the Formica laminate on the wood as once contact is made, it will be impossible to shift the pieces. Tap with a rubber mallet over the entire surface to insure a good bond. All finished edges are trimmed with a router using a carbide cutter or with a sharp file. Hardboard panels ¼-inch thick are used to close off the rear of the bookcase. As a finishing touch, a set of two-inch ball-bearing plate casters (Faultless No. 9379) were installed to make the bookcase easily movable for cleaning purposes. •

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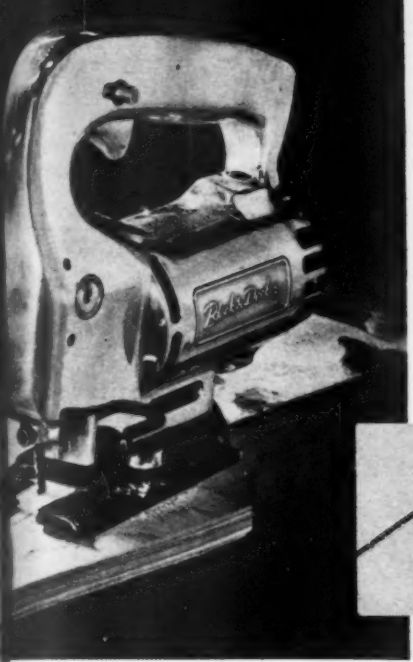
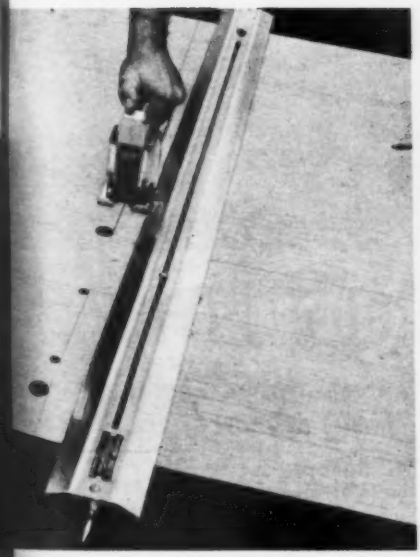
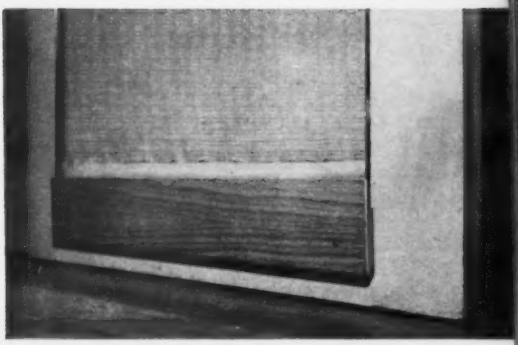


NYLON SHOE insert fits around blade of Black & Decker saber saw, prevents splintering of plywood on upstroke. The clean cut was made with the shoe, ragged one without it.



SKRIP-EDGE clamps on plywood up to 50 in. for straight cut with portable tool. $29.50.

Skrip-Edge Co., Box 26, Cedar Rapids, Iowa



TWO STRIPS of ¼-in. plywood, outer lapping top of inner one, make a slip-in base for a mirror when screwed to bottom (solid area) of hollow-core plywood door.

DOWEL with glue on inner end and side forms solid base for fixture when pushed flush through hole in hollow-core door.

MUSIC CENTER ROOM DIVIDER

A completely-equipped entertainment center designed by a leading New York architect.

By Seymour R. Joseph
Member, American Institute of Architects

THIS music center and room divider was designed for a home owner who wanted to combine a stereo high fidelity set, a TV set, a record player (by the way what ever did happen to *phonographs?*), a refreshment bar and a place for storing records into a single music center. The result, as you can see from the photograph, is a rather impressive piece of furniture.

Function and elegance are neatly combined in this 13½-foot "cabinet." The entire unit is supported along its length by six-inch brass legs. Note that the right side of the ensemble rests on a step leading to the hallway. Extra

brass legs would of course have been used if the unit were shorter or if the step had not been used as a support.

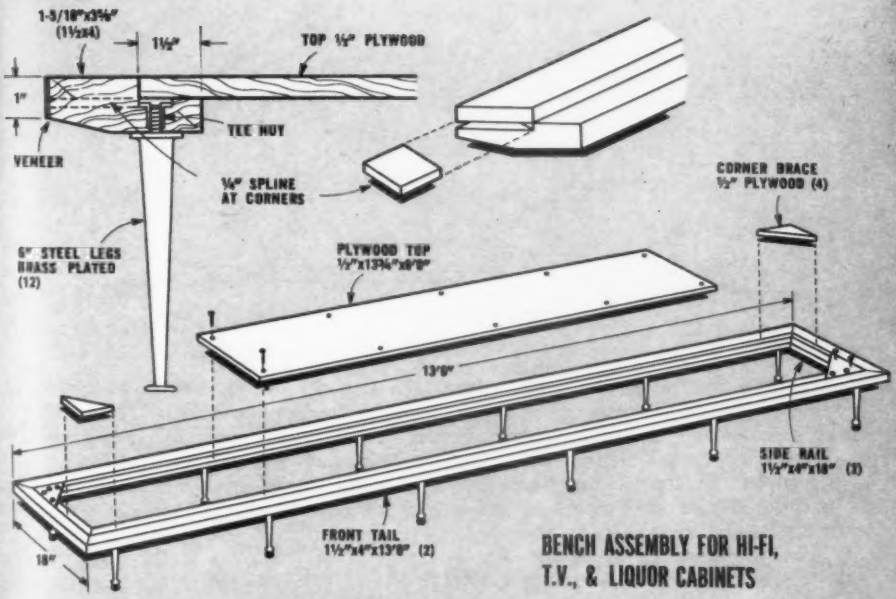
All exposed surfaces consist of walnut-faced plywood made by the U. S. Plywood Company. The walls in the background consist of this company's Algomagrade walnut paneling.

Basically, construction starts with the assembly of the bench support. If you are planning to design such a unit for your own home, bear in mind that over-all length will depend of course on the existing units which you own or plan to purchase. You may want to eliminate the refreshment bar, or the extra television speaker or possibly use smaller speakers for the stereo sound.

The speakers for the stereo set-up are located at the extreme ends of the unit and are exposed by sliding back the doors. An interesting detail of construction is the opening cut beneath each speaker for added resonance.

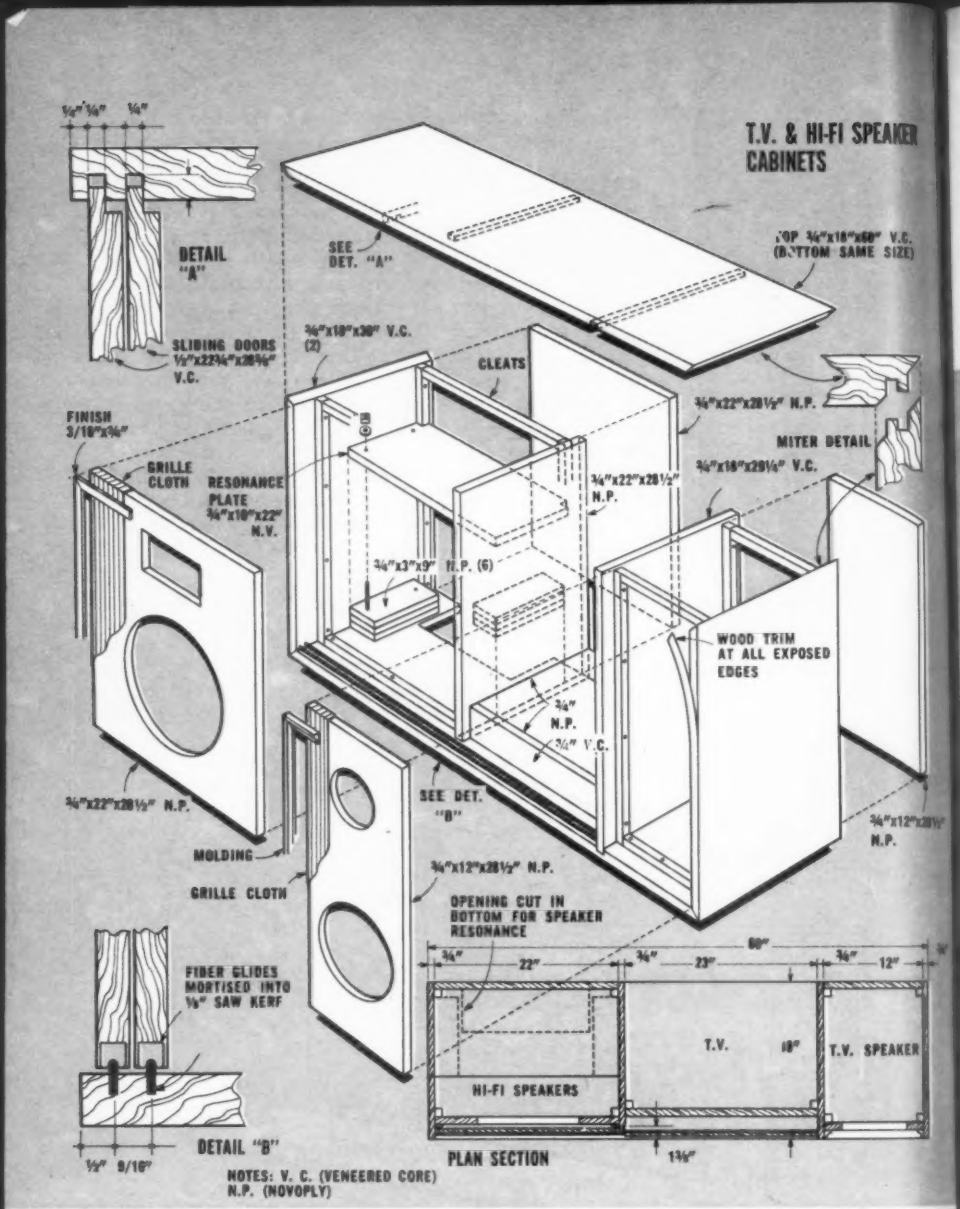
The doors are rather ingeniously arranged. When they are moved back, the door to the left hides the television set, while the door at the right covers the amplifier and record storage area.

Note that the television set has a separate speaker. Separate that is from the built-in loud speaker that generally accompanies a TV set. All television sound comes in on an FM wavelength, which is practically



BENCH ASSEMBLY FOR HI-FI, T.V., & LIQUOR CABINETS

NOTE: BENCH TOP IS OMITTED BELOW SPEAKERS



noise-free and of great fidelity. However, the usual small speaker with which most television sets are burdened just doesn't do FM sound justice. Accordingly, the separate speaker shown to the right of the television set was designed and installed as illustrated.

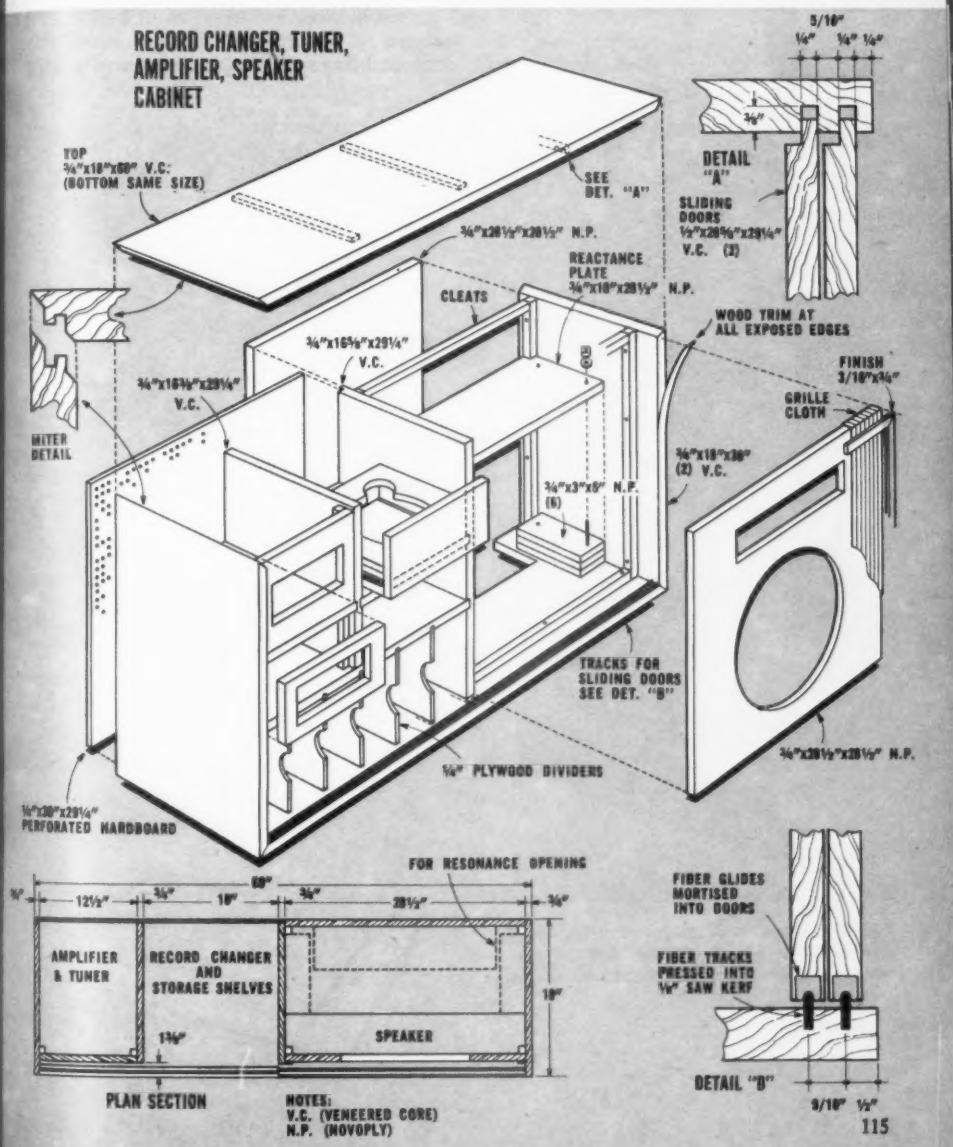
The problem of alignment between adjacent components was nicely taken care of by the bench on which the various components rest. Note that the combination tuner and amplifier is built right into the cabinet adjacent to the right hand speaker. Alternate construction would be to place the tuner or amplifier on exposed and finished shelves. Such a step would eliminate the problem of cutting holes and align-

ing shafts in the cabinet front.

The handy record storage cabinet has five separators. A good idea as this will keep records "departmentalized."

All edges and ends of the exposed plywood were covered with wood tape. This material is available in practically any wood and can be finished to match. Construction includes four ½-inch thick plywood corner braces at each corner of the bench. They were necessary because of the extreme length of the bench. The corner braces prevent possible misalignment after assembly.

The inside of the drop-front refreshment bar is covered with white Micarta. This material is stain-proof and easy to clean. •



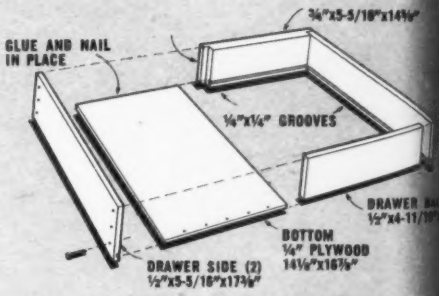
4 DRAWER CHEST

By Alvaro Altomare

MANY uses around the house will be found for this small, sturdily and simply constructed chest of drawers. Low in height, it is handy in the kids' room for clothing and toys. In the bedroom it makes an elegant night table and in the living room a stand for a lamp, radio or TV, with four-drawer storage space. When all wood is prepared for assembly, glue and screw drawer runners on one side first, then mark the location of the runners on the other side. Assemble body, base and drawers with screws and glue. •

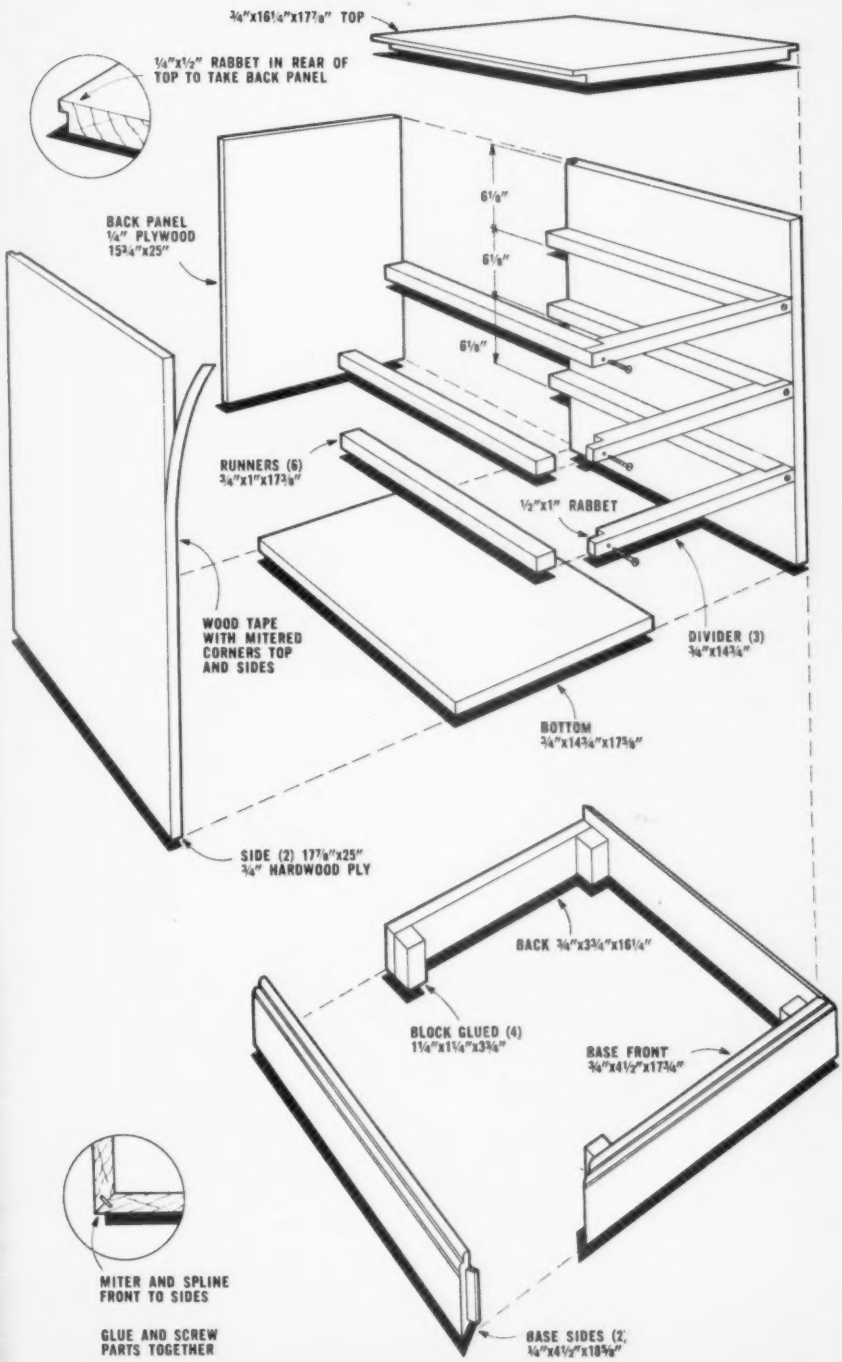
CHEST is made of mahogany-veneered plywood. It is of simple design and will go with modern or period decor.

NOTHING COMPLEX about construction: a three-sided box, a base and framing.

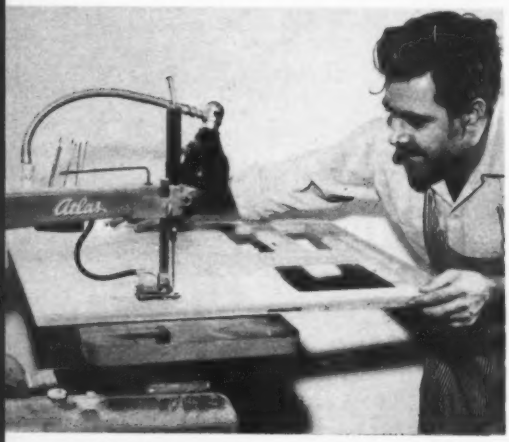


DRAWER DETAIL

DRAWER CHEST CONSTRUCTION DETAILS



THIS CABINET was designed to fit the odd space between range and washer.

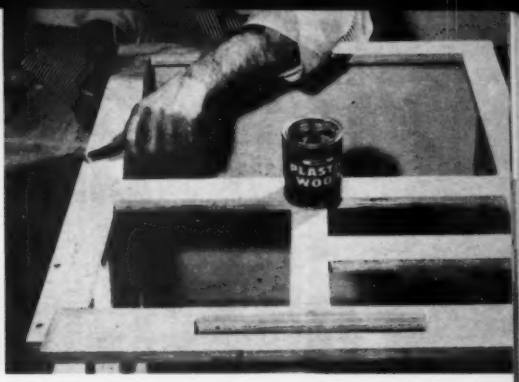


JIG SAW is used to cut the openings in the front panel of the cabinet. Wide blade will make it easier to cut straight lines.

CUSTOM KITCHEN CABINET

FOR some mysterious reason, newly purchased kitchen appliances are always larger than the old ones they replace! When this problem presents itself, the obvious solution is to remove an existing cabinet in the kitchen, install the new appliance—and then wonder how to fill the resulting "hole." If the opening is such that any one of the standard-size kitchen cabinets will fit the area, fine. If it is an in-between size, a problem presents itself which can only be remedied by a new cabinet.

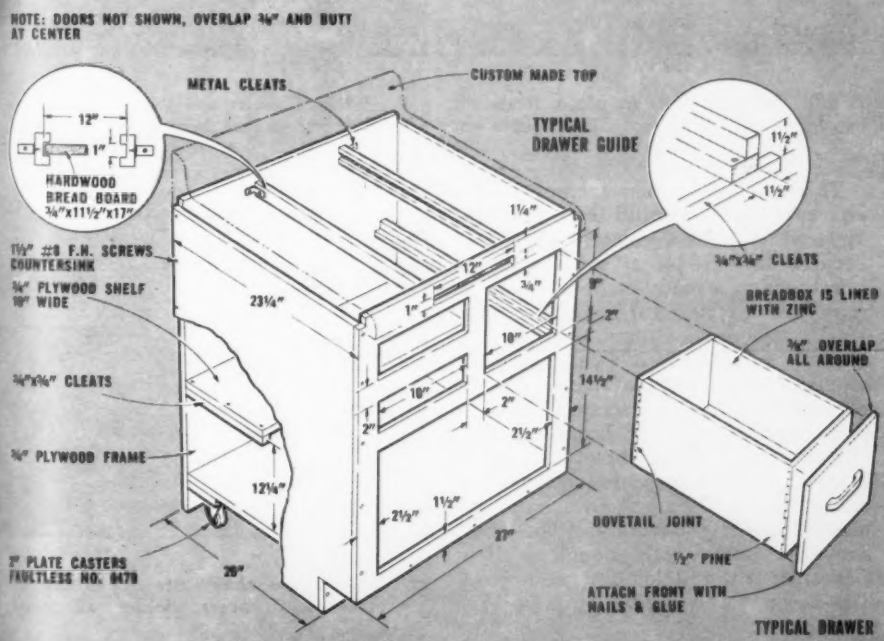
CABINET is temporarily clamped together in order to drill pilot holes for screws.



ALL SCREWS are countersunk. The tops are then covered with Plastic Wood as shown.

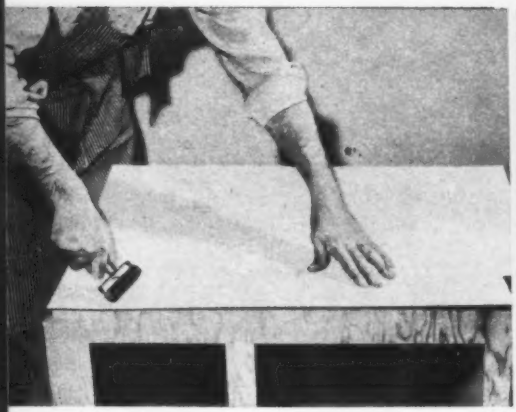
TWO-INCH ball-bearing plate casters are installed. Wheels should project ¼ inch.

ALL SURFACES should be carefully sanded before application of the white Micarta.



TO CUT the Micarta laminate, scribe it. Then bend it against a straight edge as shown above. It will break on scribed line.

AN EVEN COAT of contact cement is spread over the two surfaces to be laminated. Use heavy wrapping paper for "positioning."



AFTER the Micarta is in place, it should be thoroughly rolled to assure adhesion.

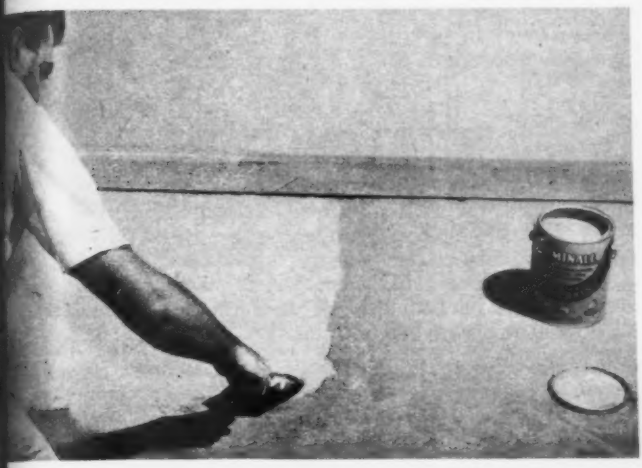
A STANLEY router speeds the job of trimming away excess Micarta at all edges.

This modern kitchen cabinet, shown above, is easier to build than would be apparent at a first glance. This is so because the one-piece moulded top is purchased as a ready-made unit. Such tops can be ordered in practically any length at your local lumber dealer. A curved moulded top is ideal because it eliminates the "square" which always seemed to house an accumulation of soap powder, dirt and bread crumbs.

The base of the cabinet has three drawers, a cutting board and a large compartment at the bottom to store the usual kitchen miscellany. The shelf should be placed high enough to allow clearance at the bottom for gallon jugs. The large [*Continued on page* 132]

ZINC-ALLOY sheets are cut to line the bread-box drawers. Solder all joints.

FRESH PAINT TIPS



NEW CONCRETE floor paint can actually be applied over a damp floor. It is called Luminall and is made by the National Chemical and Mfg. Co., Chicago 9, Ill. The paint is made in 9 colors and white.

FIRST STEP is to scrub the floor with a TSP (trisodium phosphate) solution of two ounces to one gallon of warm water.

NEXT the floor is thoroughly rinsed with a hose. If mop is used, at least three changes of clean water should be used.

A PAINT that sticks to galvanized surfaces is made by the Rust-Oleum Co., Evanston, Ill. Weathering or etching is not necessary. Of course, surfaces must be free of grease and all dirt.

CAR CARE

Which Antifreeze Shall I Use?

Should you drain your antifreeze once a year, at the end of winter—or never?

By Frederick C. Russell
Member, Society of Automotive Engineers

MILLIONS of gallons of antifreeze have passed through automotive cooling systems in years gone by but never have car owners been so confused as at present. Fortunately, as a new cold season approaches, certain facts can be sifted from a maze of conflicting information on the subject of coolants and protection. Let's take a look at them.

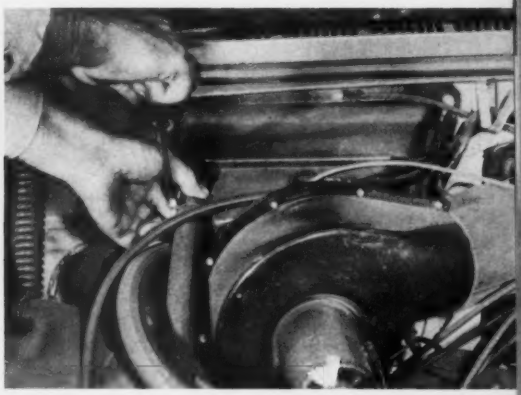
AN ETHYLENE GLYCOL drip will not evaporate as quickly as water. This has led to notion that it "leaks" faster than water.

IN SUMMER, the approved engine coolant is plain, ordinary water. The best kind of water is "soft" water, free of calcium.

ADD SEALER only for minor leakage. It can't hold against head gasket pressures.

FAULTY thermostat may upset a cooling system. Test by dunking it in hot water.

TOO SOFT a radiator hose may mean that coolant is restricted by a broken lining.



TIGHTEN hose clamps a little at a time to stop coolant leakage. Don't overdo it.

CHECK on radiator filler neck seat and pressure cap gasket. Correct any defects.

DRAIN coolant at rear of engine block as well as at the bottom of the radiator.

CHART tells how much antifreeze to use on a capacity and temperature range basis.

The following are some of the questions asked by motorists: If an antifreeze is the permanent type, why must it be discarded after a winter's use? What, moreover, is the difference between a permanent antifreeze and a permanent "permanent"? How can a driver tell when a long-lasting antifreeze needs changing? How long is long?

No one knows better than the antifreeze people what a mistake it was to call ethylene glycol antifreeze "permanent." It might better have been called "all-winter" antifreeze. When it first appeared, car owners regularly added alcohol to the cooling system in winter to replace what evaporated or boiled off. (Alcohol lowers the coolant's boiling point.) An antifreeze that would last all winter was welcomed and apparently rated the adjective, "permanent." But many motorists wondered why it had to be drained off and discarded.

Antifreeze people said the draining was for our own good—that the coolant collected acids from slow leakage of combustion gases past the head gasket or gaskets and that these, combined with alkaline inhibitors in the antifreeze, produced salts which are harmful to cooling system parts. Many motorists took a chance. leaving the stuff in the engine for several years.

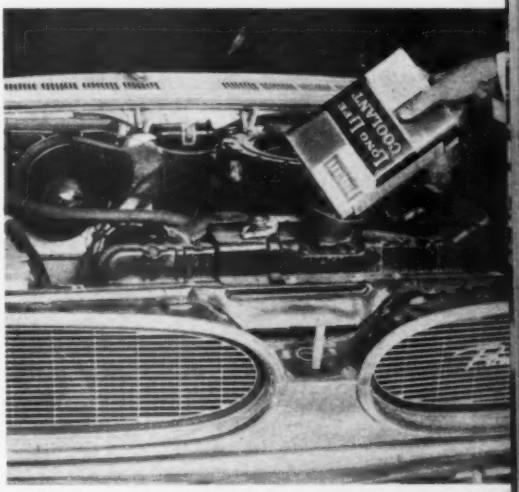
If there has been no actual breakthrough in the chemistry of glycol-type antifreeze, then how can the newer permanent permanent antifreeze be used beyond the customary one season? This is the question that has been worrying trade and public alike while Du Pont and Dow Chemical plug for a longer-lasting solution while Union Carbide Consumer Products Company continues to stress one-season use and at the same time introduces a new Long Life Coolant! There are arguments pro and con. Many feel that it all boils down to selecting the antifreeze tailored to your

MANUFACTURER	ALCOHOL	PERMANENT (Ethylene Glycol)	PERMANENT PERMANENT (Ethylene Glycol Plus)
Du Pont	Zerone	Zerex	Telar
Esso	Coldex	Perma-Gard	None
Firestone	Frigitol	Motor King	None
Union Carbide	None	Prestone	Long Life Coolant
Dow Chemical	None	Dowgard Antifreeze	Dowgard Year-Round Cooling System Fluid
Texaco	None	PT Antifreeze	None
Ford	None	FoMoCo Antifreeze	None
Chrysler	MoPar Methanol	MoPar Permanent	None
Western Auto	Wizard	Wizard	None

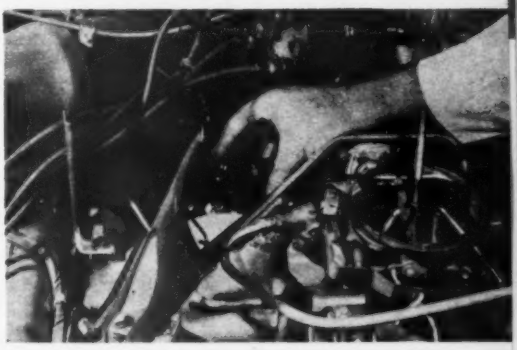
own particular needs and requirements.

Just as the word "permanent" was unwisely selected for ethylene glycol, so was the phrase "never drain." Du Pont's Telar, for example, contains a built-in color check which, when changing from the normal red to yellow, warns that corrosive gases are getting into the solution and that it should be changed. Dowgard Year-Round Cooling System Fluid carries a significant guarantee: In 1958 cars or newer, Dowgard coolant is guaranteed against loss for two full years or 24,000 miles, whichever occurs first. Replacement for loss the first six months is free; from 6 to 18 months, 50 per cent of retail price; from 18 to 24 months, 75 per cent of retail price. This means that customers will get all the benefits of Dowgard through 1961, 1962 and part of 1963 (summer and winter) for only about 50 cents per month. Thus, in using a permanent permanent antifreeze, much depends on the condition of the cooling system as well as the engine itself. An ideal set of conditions should not be expected.

But this does not provide protection against overheating from loss of coolant in hot weather, especially when engines must work harder to provide air conditioning. A 43 per cent solution of ethylene glycol which is sufficient to protect against freezing at temperatures as low as 20° will also have a boiling point of 222°—10° above the boiling point of plain water at sea level. This is a marked advantage where the engine is inclined to run hot even though it is true that such [*Continued on page* 134]



USERS of Prestone Long Life should check for "make-up" after first winter's use.



TIMING should be checked. If late, it can be cause of overheating and overflow.

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Santa knows what he's talking about. If you want to build your own home—or make the old one look like new—you'll find a zillion practical, easy-to-follow ideas in MECHANIX ILLUSTRATED, The How-to-Do Magazine. We'll bet you have a lot of friends, like yourself, who like to do it themselves. This year give them all a real break and treat yourself to a nice savings in Christmas-present money at the same time. Send each of your pals a subscription. The first one will cost you $3.00. Each additional gift will cost only $2.00—a big savings of 33⅓ per cent! And it's *so* easy. Just mail the handy order form today—and we'll see to it that a special gift announcement card in your name reaches each lucky new subscriber before Christmas Day.

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FAWCETT BUILDING
GREENWICH, CONN.

BOY'S ROOM

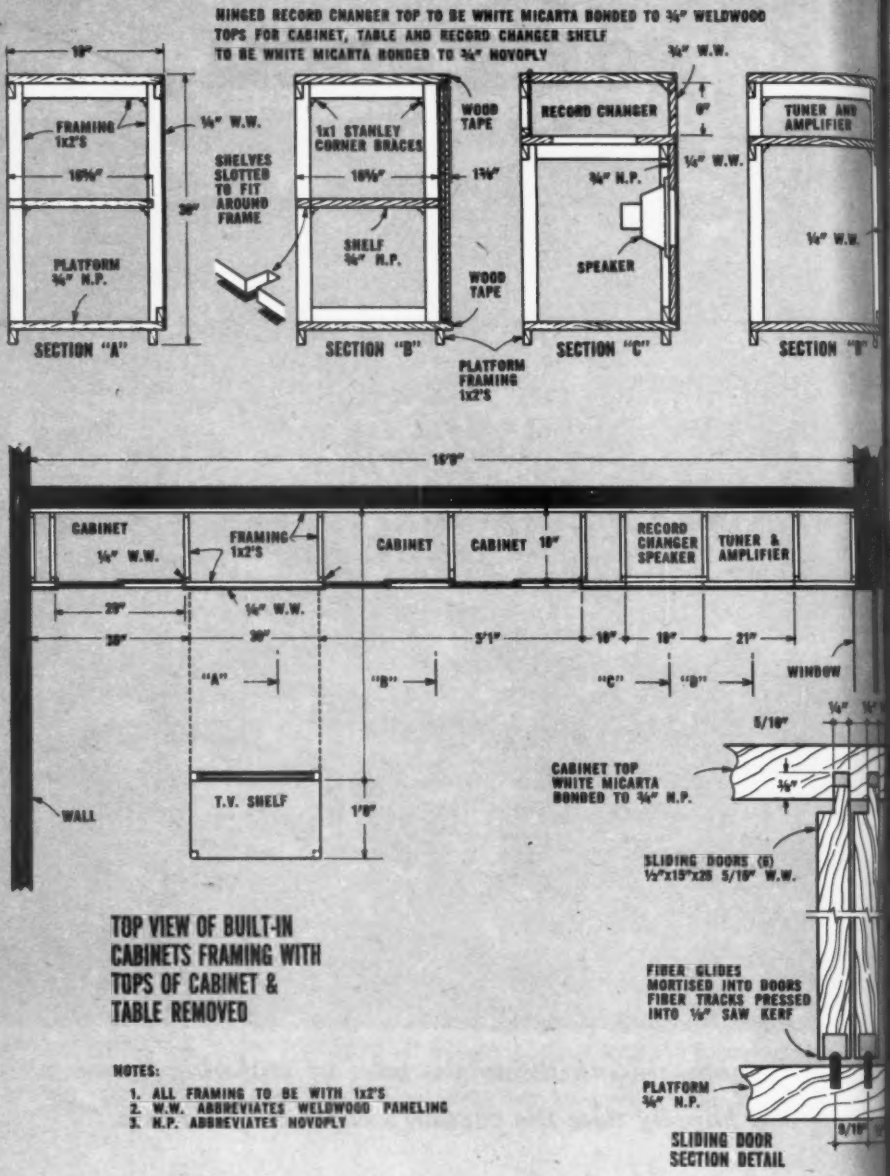
Any boy who thrills to the tales of seafaring life will happily take the captain's chair in this room.

WHAT boy hasn't once or always harbored the dream of going down to the sea in ships? Which one hasn't felt his knees bend and shift to the plunge and roll of the quarter-deck? And who of them hasn't sat in a great cabin with his wrists curled on the arms of the captain's chair?

Some of the stuff that such dreams are made of is a real part of this handsome boy's room. Tastefully finished in modern materials and decorated with nautical items, it combines the romance of the sea with the practicalities of daily living—including hi-fi cabinets and a TV shelf.

Charter oak plywood wall paneling* sets the whole thing off admirably. Its warmth and durability recall the beauty and strength of old-time wooden sailing

*Made by U.S. Plywood Company



TOP VIEW OF BUILT-IN CABINETS FRAMING WITH TOPS OF CABINET & TABLE REMOVED

vessels and the swirling grain and knots suggest the many moods of the sea, the march of waves to distant shores and the adventure of unexplored islands. Gleaming white Micarta cabinet and table tops have the freshness and cleanness of mid-ocean and they're easy to keep that way, too. The nautical items are the final touch and it's easy to pick up several of them at marine suppliers. Authentic relics such as an old sextant, a carved and painted figurehead or a hand-blown bottle are often available at antique dealers. The boy may have already provided the ship models. If not, the setting may well inspire him.

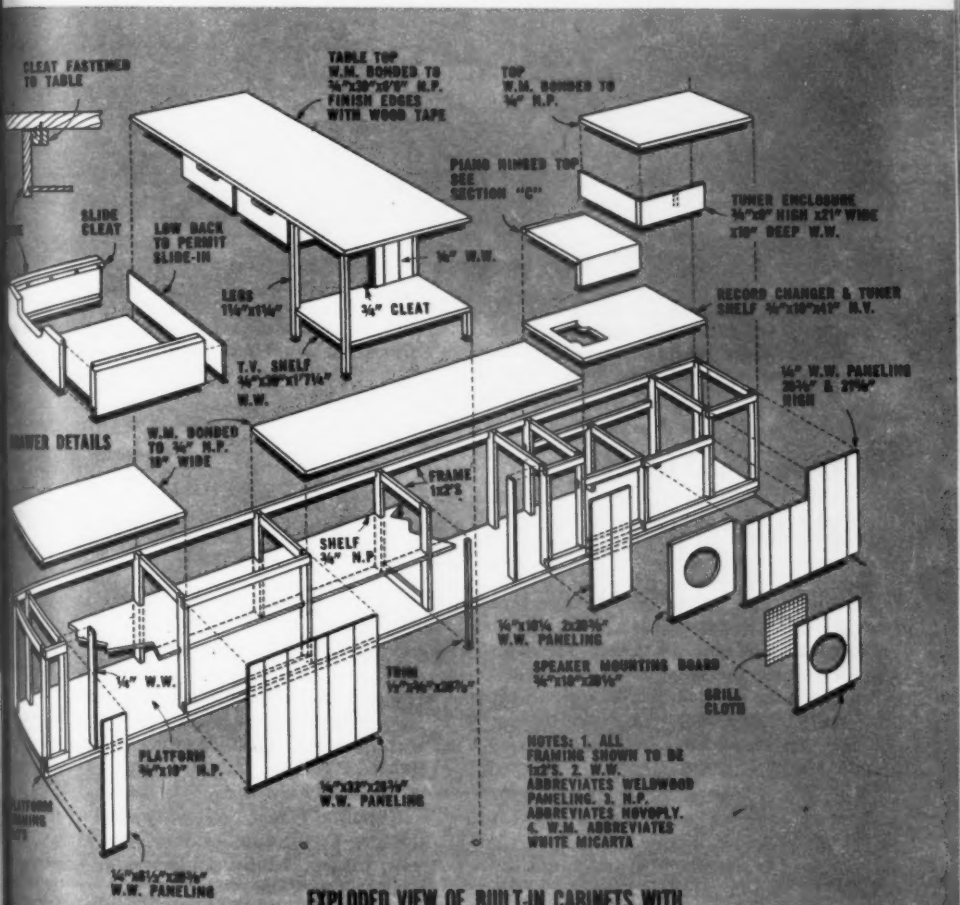
Construction along the interior wall is easy. The panels go up with no prepa-

ration other than a coat of contact cement on both clean surfaces, with open areas left for the book shelves, ship's wheel and fish cutout. The cabinet framing is 1x2-inch pine with simple butt and lap joints glued and nailed. It is erected on a Novoply base which also rests on a 1x2-inch base frame. The Novoply, used as indicated for the horizontal surfaces and the speaker mounting board, consists of wood flakes and chips glued up under pressure into attractive, dimensionally stable panels which do not require finishing.

With the framing complete and the Novoply in, the front of the cabinet unit is finished off with short lengths of oak paneling. Brads and cement hold the fixed pieces and the sliding door sections are edge-glued.

The table extension is built and added next, with the inside edge of the Novoply top resting on the framing in a cutout in the Novoply cabinet top. The entire top surface is then covered with Micarta, bonded with contact cement. Wood Tape finishes off exposed edges of the laminated sections.

After the nautical touches are added, any lad will happily stride the deck or sit down to chart a course in geography, math or history—and with stimulation to learn these things well, other less related subjects come easy.—*Jack Smith*



EXPLODED VIEW OF BUILT-IN CABINETS WITH PHONO, RADIO AND TABLE WITH T.V SHELF

New Ideas in Photography

80 SLIDES go into Kodak Carousel Projector's unique revolving tray—enough for a whole show! Simply drop them into numbered slots. Project automatically, or by push-button, or remote control. Remote control and power cords neatly store in compartment at right of lens.

New Kodak Carousel Projector has round "long-play" tray on top!

"Revolutionary" is the word for this brand-new Kodak Carousel Projector. It features a unique *round* slide tray that goes on top like a hi-fi record. Easy to change as a record, too. And because it's on top, all slides are easily accessible. Holds *80* slides—twice as many as most trays hold. Enough for a whole show!

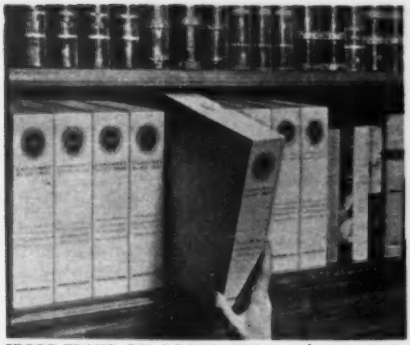
Set it on "automatic"—or use remote control to change slides and focus. Since your slides feed down by free-action gravity, they can't stick or jam in mid-show. No slide-holders needed. No out-of-focus popping—slides are preconditioned by warm air.

Optical system is superb. Includes high-efficiency condensers; brilliant, color-corrected 5-inch Ektanar *f*/3.5 lens. Hi-lo switch gives you choice of lamp power for dark or light slides. "Piano-key" controls are lighted. "Select" button lets you turn tray to show any slide.

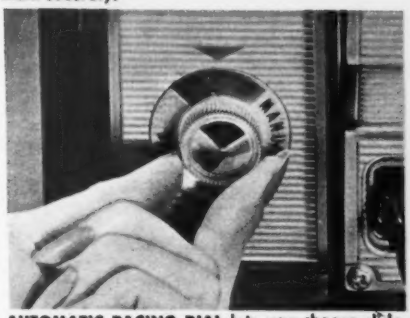
Sturdy die-cast body is typical of *Kodak* quality throughout. Less than $140. See your dealer. Many dealers offer terms as low as 10% down.

from Kodak

REMOTE CONTROL lets you focus, advance slides one at a time, or reverse to re-show a slide. 12-foot cord lets you sit comfortably with guests or family. For group showings or lectures, any number of 25-foot extension cords may be added.



STORE TRAYS ON BOOKSHELF—each tray in its own book-type case. Slides can't fall out, even if tray is turned upside down. Locking ring holds them securely.



AUTOMATIC PACING DIAL lets you choose slide-changing intervals of 5, 10 or 20 seconds; the projector will put on the complete show for you! Or—use manual control.

(Below) **SPECIAL FEATURES** of the Kodak Carousel Projector include lighted keyboard for fast, sure control of action . . . "Select" button lets you turn tray to any slide you wish. Slide is easily located —its slot is numbered on the tray flange. Hi-lo light control, forward and reverse buttons, too.

Price subject to change without notice.

Kodak

EASTMAN KODAK COMPANY, Rochester 4, N. Y.

Enjoy Walt Disney's "Wonderful World of Color" Sunday evenings, NBC-TV

Custom Kitchen Cabinet

[*Continued from page* 120]

bread box drawer is lined with a zinc alloy sheet metal. This material is now put out in kit form for use by hobbyists by the Illinois Zinc Co., and can be purchased in many crafts and hobby shops.

Measure the area for the cabinet very carefully and order the top. Bear in mind that the top will be custom-made and won't be returnable for credit. The size *must* be right. It is best to start construction *after* you receive the top. Follow the measurements shown or alter to suit *your* needed size and build the frame using ¾-inch plywood.

The one-piece front, with the necessary areas cut out on the jig saw, simplifies construction and eliminates the need for complicated gluing. All joints are glued and screwed with all screw heads countersunk.

Prior to laminating, the cabinet should be given a thorough sanding. First with a medium grit paper, followed by fine, then extra fine. This sanding operation is important as any imperfections or wild grain will telegraph through the white Micarta laminate.

Use a good grade of contact cement and apply two coats to both surfaces. The cement must be perfectly dry between coats. Cut the laminate ⅛-inch larger all around than the cabinet size and carefully place into position. Once the material is down it will be impossible to move. A small roller is used to press down each square inch of the laminate for a perfect bond. Contact cement does not require drying time so you can trim the edges immediately.

The edges are finished with a router fitted with a carbide cutter. If you do not have a router, use a block plane, be careful near the corners to prevent chipping.

Drawers are made as shown with dovetailed or rabbet joints, as you may prefer. The laminated fronts are made with a ¾-inch overlap. The doors are also made to overlap ⅜ inches, except at center where a butt joint is used.

Plate casters are mounted in the bottom recess and should project about ¼ inch to make the cabinet mobile so that it can be readily moved. Important, for how else can you clean the floor underneath the cabinets? Brass drawer pulls (Stanley No. 4477C) are the finishing touch. •

FITTING the custom-made top. Such tops are made by U. S. Plywood fabricators and cost about six to eight dollars per running foot.

Plywood Grilles

[*Continued from page* 99]

able to match grilles for diffusion effects. If the light source is hot or close to the sheet, Fiberglas is recommended.

Once you have tried your hand at grille work and got the feeling of the material you will see many possibilities. Three panels on end and fastened together at the edges will make an attractive table lamp when backed with plastic. Place a grille over a glass door or ornamental mirror and see how its decorative value is heightened by the grille pattern. In working with grilles, whatever you do, you will appreciate the virtues of a lightweight decorative material. •

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ADHESIVES
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WOOD FINISHES

Products of United States Plywood

[*Continued from page* 125]

antifreeze does not make an engine run cooler. Plain water still is the best summer coolant for an engine without air conditioning, but the water must be pure.

One of the advantages of Dowgard's permanent permanent antifreeze is the fact that it is sold with its own pure water in the correct proportion. After falling as rain, water absorbs carbon dioxide from the air and this chemical dissolves many minerals as the water flows over the earth. To this are added the salts, fluorides and microorganisms. By the time it reaches the cooling system of your car, it may be quite a chemical hodgepodge. Only 18 states are in the soft water group and even these have areas of hard water. That is why Dow emphasizes that water is the thing to watch in cooling system care and provides pure water along with the antifreeze.

All companies now stress the importance of the right proportion of water and antifreeze. This has become more important since antifreeze is being sold at discount houses. The car owner usually puts it in himself and often gets into trouble by failing to drain the cooling system completely. Overlooking the drain or drains at the rear of the engine block, he removes not much more than the water in the radiator. Then the radiator overflows before he can add the right amount of antifreeze. Also, since the instructions are to mix regular ethylene glycol with water before adding it to the system, many owners compound their troubles.

If you didn't buy your antifreeze from most filling stations, they'll charge you a dollar to put it in. The old coolant is drained off thoroughly. If reverse flushing is needed, they will have the equipment to do it and charge accordingly. But it saves you the cost of having to add more antifreeze if things go wrong during the winter.

Du Pont has its popular Zerex one-season ethylene glycol and Dow now offers plain Dowgard antifreeze to compete with Prestone, Zerex, PermaGard and others. It points up clearly that the automobile world is not ready for a mass switch to a truly permanent coolant simply because there is as yet no actual closed cooling system. Also, it's easy to tamper with the cooling system. Typical is the tourist who may unscrew the pressure cap to check the coolant level just before climbing a long, steep grade. He reduces pressure just at a time when this would serve to keep the boiling point up and prevent overheating.

Modern cooling systems have been complicated by the addition of a cooler for the automatic transmission's oil. This is built into the base of the radiator and may leak oil into the cooling system. Then there is the motor thermostat which may not be working. If any of the ethylene glycol antifreezes are used, the stat should be the high-degree type (180). But if alcohol is used, the stat should be the 165° variety, for an alcohol solution that protects down to −20° will boil at 180°.

Other things that affect the efficiency of any antifreeze are internal and external leakage, air suction around hosing, air flow restrictions at the radiator front, sludge in the oil, hose deterioration, pump and fan trouble, exhaust gas leakage at the head gasket, rust deposits, heat cracks and the heater's control valve. All the standard brands of antifreeze carry rust inhibitor and there usually are other inhibitors to check foaming and seepage. Whether to add a sealer is a decision that should be based on need rather than a "just in case" attitude. Sealer will check small leaks in the radiator and around block core plugs. It can't check exhaust gas leakage at the head gasket because of the high pressure.

You can simplify the matter of antifreeze selection by asking yourself how the cooling system and engine of your car stacks up. Never mind what the other fellow does. Many will find alcohol a good enough antifreeze where the pressure cap has a high rating and the thermostat is a low-degree type. Others will go all out for just as much permanency as they can get and not complain if luck runs against them. Still others will choose a midcourse and be satisfied with ethylene glycol that is designed to give one season's service and give it at less initial cost than the longer-lasting version. •

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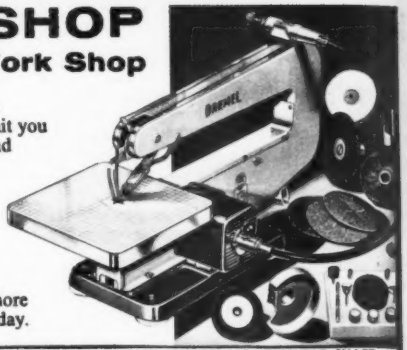

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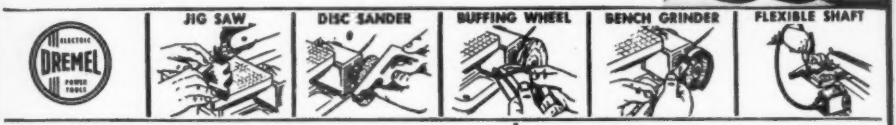

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Model 572 (all attachments shown)....**$49.95**

Tom Tests '62 Chevy

[*Continued from page* 82]

jungles to GM's proving grounds located somewhere in the midwest near a town called Detroit. When we finally got past 213 guards, there was an entire line of 1962 Chevrolets to test. Now, as you may realize, it's impossible to test a whole line in less than a month. Besides, we were under orders to bring you the scoop primarily on the new Chevy II. However, I took a ride or two in the other offerings. In brief, the big standard Chevies are only slightly different style-wise. The line has been reduced to 14 models from last year's 20. The chassis are basically the same as in 1961. Last year's 348-cubic-inch engine has been dropped and replaced with a 327-inch mill, which in reality is Chevy's old 238 V-8 rebored and stroked to 327.

You real performance buffs can get the big Chevy with a 409-cubic-inch atom smasher that puts out 409 hp at 6000 rpm. I gave this rig (with a four-speed manual box) a whirl and found the big Impala sedan getting from zero to 60 in less than eight seconds. On one short run it passed 125 mph with plenty left in hand. As already noted, all major camps this year are featuring four-speed floor shifts.

The Corvette has had a new side treatment and sports a new radiator grille and emblems and that's about it. The Corvair is pretty much a full carryover from last year with just one or two minor decoration changes. Incidentally, the more expensive Monza models have been out-selling the cheaper bench-seat jobs.

Now, back to my job of testing the Chevy II. The first rig I tested was the Nova Six convertible. This is not a fast breakaway car when equipped with Powerglide transmission. Zero to 30 averaged 5.2 seconds and 0 to 50 averaged 12.1. Zero to 60 took 17.9 seconds. Once this heap got rolling it cruised nicely at 65 to 70 and even in a slight cross wind it drilled down the road as straight as a dollar-a-year man's tax report. Flat out, which with Powerglide was 91 mph, this little car never wavered and even over some rough strips it was one of the safest feeling 91's I have ever driven. Later Boji and I sneaked a look at some average engineering performance figures and found out that with a standard transmission these six-cylinder jobs can get up to 98 and average 15.1 for zero to 60. My times with Powerglide proved about average. With nice bucket seats and top-grade upholstery, this is a good-looking car. With a little hopping up, a stick shift and its low price, it should sell like cold beer on a hot Fourth of July.

The four-cylinder Chevy II I tested, also with Powerglide, was a real nice small car with lots of room and reasonable per-

formance. In fact, I was surprised how well it did go. Its weakest point (with Powerglide) was in starting off. Zero to 30 averaged 6.7 seconds but 0 to 60 was a fairly good 19.4 seconds. If you go back about 11 years, you will find that the first standard Chevy Six with Powerglide wasn't quite this fast. Top speed in this four-banger was just about 85 after a long mile-and-a-half buildup. The four wasn't the smoothest four I have ever driven but it had nice response and will probably still be running long after Castro shaves his beard off. I couldn't get any economy figures but they should be fairly good.

What's the real purpose of the new Chevy II? Like Ford with its new small Fairlane, I think the Chevy II was designed with one big aim: to attract the buyer who can't make up his mind between a compact or a big car and who, consequently, decides to hang onto his old car for another year or so. There are thousands of buyers who like the compacts' economy and ease of handling but who feel a bigger car will give them more prestige. On the other hand there are many buyers who own a big car and would like a smaller one—but not too small. In other words, the two major camps—Ford and Chevy—felt that some buyers were slipping by, or simply not buying. In this high-production league such a situation isn't good—so the Big Two came up with Mr. In-Between, the giant midget or the little giant, however you want to look at it.

In summing up, I think the new Chevy II series is a pretty important addition to today's automobile line-up. For 1962 Chevrolet and Ford will have every slot filled—and if a guy can't find what he wants in one of these two camps, he's just not trying. •

Tom Tests '62 Falcon

[*Continued from page* 86]

Totally new for 1962 are the Falcon Squire, a Station Bus and a Club Wagon. The Squire is the model we selected to test. This job, with its imitation wood paneling, is a direct adaptation from the bigger, similar-looking regular-size Ford Country Squire Wagon. It's as neat as a West Point Cadet on graduation day. It actually

[*Continued on next page*]

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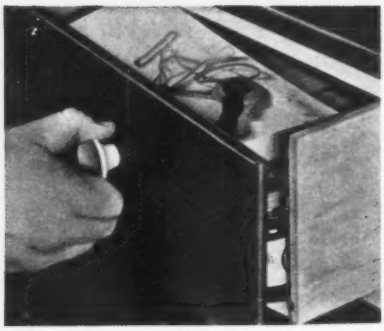

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has about the same interior room as a regular Ford wagon of only five or six years ago.

Our test Falcon Squire was equipped with the 170-cubic-inch twirler and a two-speed Ford-O-Matic. To say it was a bomb would be like calling Khrushchev tall, dark and handsome. Zero to 60 mph averaged 16.9 seconds and top speed was just an eyelash over 80 mph. But forgetting wildcat acceleration, this car was as comfortable as a full bank account and as smooth as an oiled cat. The steering was as accurate as Noah's prediction of rain. Though there was some body lean in corners, it wasn't uncomfortable.

A note in Ford's Book Of Facts states that manual-shift Falcons now have an interlocking mechanism to prevent shifting into Low or Reverse unless the clutch pedal is completely depressed. Ford claims this will prevent drivers who "aren't familiar with manual shift" from clashing gears. What happens if he starts playing around with second and third gear with his feet under the dash? Oh, well.

The new Falcon has lots of little goodies and so-so's such as a rubber shield to keep road splash and dirt from lousing up the generators; deeper-grooved piston rings; increased piston-to-bore clearance (they can build them sloppier this way), and—here's one that's bound to flip you—Ford now mixes a plastic (resin) binder with the foundry sand to produce precision-made cores and molds (Be sure to check up on this, boys).

For 1962, Falcon uses 20 per cent heavier front stabilizer struts for "an extra margin of safety" (so they say) and comes equipped with two-ply tires which, they claim, make nine per cent bigger footprints for better traction. They claim this two-ply tire cuts down on the rolling resistance which "tends to improve economy." (Well, Henry, either it does or it doesn't—which is it?) They also say the two-ply shoes provide cooler running for "a greater margin of safety"—but fail to point out that if they used 15-inch wheels instead of 13-inchers they'd run still cooler.

The Falcon Squire is a real neat package, from its "limed-oak rails" (made of fiber glass) to its power-operated tailgate window. Air-conditioning is available. For the guy who needs station wagon properties and can use them in slightly smaller

than regular size, the Squire should be very appealing.

Now for some real goodies. The Falcon features a manual choke as standard. Lunatics can order the automatic at extra cost. Falcon still stays with two excellent *single* headlights, as opposed to the trend toward multiple front-end confusion. The cars have a new torsional vibration dampener, which undoubtedly accounts for the extra-smooth performance at regular speeds. All underbody and vulnerable areas have been rustproofed and, as in the regular Ford line, all steel used in underbody superstructures and rocker panels has been galvanized.

For the sports in the crowd Ford offers the Futura model, which is really a deluxe Falcon. This has more and better sound insulation than the plainer Falcons, bucket-type seats, and the trim is upped in quality. This is the job for the guy who wants a Falcon but with slightly sexier looks.

In summing up, as Bluebeard once said, "You can't fight success." The Falcon is a piece of transportation as practical as a roof and as basic as baseballs in Yankee Stadium. It is an honest attempt by Ford to offer the customers a reliable, economical vehicle in a neat bundle at a fair price. It has won some big economy trials and has outsold all the other compacts. With the new Squire and the sexy Futura, it wouldn't surprise me in the least if Falcon was still the Number One-selling compact a year from now. •

Toy And Game Ideas

[*Continued from page* 79]

trade papers, visit factories, get to know as many toy and game buyers as they can in retail stores. By these efforts they get to know who's in the market for what, what ideas are really new, what is on the market already.

Many an inventor has had his heart broken at I-S when they told him his idea was nothing new. But he has been saved precious time, effort and money he might have spent trying to sell the unsalable.

The best thing to know, say the I-S ladies, is the name of the manufacturer who has the tools to make your toy or game. When

[*Continued on next page*]

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SHARPENS 1000 SAWS A YEAR—"I sharpen around 1000 saws a year in my part-time shop. Work comes from as far as 55 miles away."—Joe H. Walker

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"I have filed about 500 saws in spare time. My wife agrees the Foley Filer is a good investment because it earns enough extra cash to buy our groceries."—R. J. Kreuser.

FOLEY FILED SAWS BRING NEW CUSTOMERS

Here is a steady repeat CASH business that pays from $3 to $6 an hour, and you can start in your own basement or garage in your spare time. Every saw you sharpen with the machine accuracy of the Foley Saw Filer is an ad that brings more customers. J. C. Deibert wrote us: "Since I got my Foley Filer five years ago, I have averaged 4¼ saws each day over all this time." Howard Kuhns says: "We operate 2 Foley Filers, and our business averages about 500 saws per month. The count last year was 5,798 saws."

The new model 200 Foley Saw Filer (shown above) is the **first** and **only** machine that automatically sharpens combination (rip and crosscut) circular saws—also all hand saws, band saws and crosscut circular saws. The adjustments are simple—there is no eyestrain—and you can start right away to turn out perfect cutting saws. Exclusive jointing action evens up irregular teeth—old saws cut like new!

"MONEY MAKING FACTS" explains how you can get business from hardware stores, home owners, farmers, carpenters, schools, mills, factories, etc. Just think, with a modest investment, no overhead, no stock of goods to carry, you can start right in on a cash business that will help pay the rent, buy groceries, or a new car. Time Payments available; send coupon today for this practical money making plan. No salesman will call.

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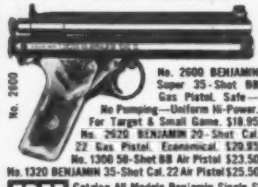

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Rachel Copelan, a successful toy designer, brought her Snuggle Snake to them, they sold it immediately to the right manufacturer.

Industrial firms are often looking for new products to fit their production capabilities. The president of Northern Signal Co., Saukville, Wisc., called on I-S in the course of such a search. His firm is a leading traffic light maker. Flipping through their files, I-S came up with Tantalizer, a trick drawing toy. Now Northern Signal Co. has been making Tantalizer for more than a year.

Just being on file with I-S can be useful. Last year Benton and Bowles, the ad agency, asked I-S to find them someone who could devise a giveaway game for savings banks. I-S got in touch with the Wrights and the Mudges, neighboring Connecticut families that have long been collaborating on games—though not too successfully in terms of money. This time they hit pay dirt with a money game—play money and make-believe bank books figure in the game.

Asked for advice to pass on to MI readers, I-S knew just what to say. Here's free help for those of you who want to cash in on ideas of your own:

Concentrate on toys, not games. Games are tough to sell. The manufacturers have their own idea men, often sell variations of their own established games.

Concentrate on low-price toys. The toy that sells for under $1 is what the toymakers want.

Keep toys simple, easy to use and handle. Remember—*children* play with toys.

Check the market first. Before you begin to draw plans or to invest in a model, visit all the stores that sell toys, especially the chain stores. If you see nothing like your idea you know it has a chance. Talk to sales clerks. A veteran sales clerk often knows better than anyone else what toys are selling and why. And whether or not your toy is really new or only a variation of a familiar plaything.

If you want to try your luck through I-S, you can arrange for an interview by phone or letter, or you can write a description of your toy or game for their appraisal. Never send a model without checking with I-S first. If they think you have a salable item they will not only encourage you to

make a model but give you useful tips on making it yourself or having it made.

A tip from the Toy Guidance Council, which I-S endorses fully: in the long run the most successful toys are not gadgets but useful playthings. For more tips and information from the Council, write to Toy Guidance Council, One West 25th St., New York 10, N. Y., and ask for their booklet Development Through Play. Enclose 15 cents in coin.

Even if you're only a minor league toy and game idea man, remember that I-S Unlimited Inc., 204 E. 38th St., New York 16, N. Y. is eager to hear from you. Because your modest little idea just might hit the jackpot. •

White House "Bugged"?

[*Continued from page* 71]

Central Intelligence Agency agents take such nighttime photographs of everyone going or coming from the Russian Embassy in Mexico City, among other places.

Today's transistor microphones and receivers are small enough to be hidden in tie clasps or cuff links, their attached wire recorders in a pack of cigarettes.

Cameras are now in existence—and in use—that can pick up in good detail objects as small as a silver dollar from a distance of 60,000 feet.

Hidden recorders are also highly sophisticated today. One of the tiniest of these units is German-made, weighs only 28 ounces, and is small enough to carry in a vest pocket. It can record and play back 20 minutes of conversation, pick up sound as far as 20 feet away. Another recorder can be carried in a briefcase, with the lock of the case serving as the pick-up microphone. Another model has a wristwatch mike. A wire connects the device, worn on the wrist, to the tiny recorder, concealed in the carrier's clothes.

Wire-tapping without a court order is, of course, illegal, even by law-enforcement agencies. The use of secret recorders, though, to take down conversations not transmitted over wires is generally unregulated. A New York State law does make it illegal for a private citizen to record secret conversations in a room unless he is present in the room himself.

[*Continued on next page*]

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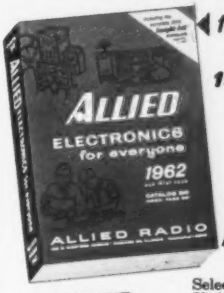

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But nobody is safe from the electronic gumshoes, private or government, and particularly in the nation's capital. In the Federal Government alone, from 50 to 100 different agencies and subdivisions maintain investigative arms apart from the more than 6,500 FBI agents. Uncle Sam employs more than 25,000 full-time professional investigators, not including espionage and counter-intelligence agents. Outside of government, there is a huge private police machine consisting of about 5,000 private detective agencies, employing 150,000 men and women and doing an annual $250,000,000 business. In Washington, D. C. alone, there are more than 1,000 such agencies, many of them unlisted, unregistered and unregulated.

All these snoops are in Washington for one purpose—to snoop. Their presence there is a fact of life. And so the most rigid security precautions are necessary and will continue to be necessary in the future. It's a constant war between newly developed, extremely clever bugging techniques and just as clever techniques for exposing and destroying the bugs.

But sometimes, counter-espionage agents sadly admit, their security precautions come to naught through completely innocent circumstances or by crossed wires or electronic gremlins that no one can explain.

Something of the sort happened recently when the "hot line" telephone rang at President Kennedy's bedside in the White House. This is the phone reserved for dire emergencies, such as notifying the President that a missile attack has been launched against the United States.

What thoughts flashed through the President's mind as he picked up that super-secret telephone can only be imagined—but he must have been more than startled when a strange voice asked:

"Is this the animal hospital?"

The President assured him that this most certainly was not the animal hospital.

The caller did not give up easily.

"Is Mr. Stevenson there?" he asked.

"No," President Kennedy replied, "this is the President."

That did it. The caller hung up, obviously convinced that he had been talking to some joker who pretended to be the President of the United States.

Just how it happened that an ordinary citizen could dial the number of his veterinarian through the Washington, D. C. telephone system and be connected with the President's top-secret phone in his bedroom at the White House, is still being investigated. Undoubtedly it was an electronic freak that could never happen again. But it made some people wonder whether, if such a thing could happen *accidentally*, trained espionage agents could not somehow manage to "cross wires" *deliberately* so as to eavesdrop on our Government's most secret conversations.

Is the White House bugged? There is no reason to believe so and every reason to hope, in the tense world in which we live today, that it never will be. •

Multiplex Stereo

[*Continued from page* 89]

with. Also, the adapter must match the tuner in certain ways. In some cases this takes more electronic gadgetry than in others. Finally, some makers put better material and workmanship into their adapters than others do.

Should I buy an adapter made by the same firm that manufactured my FM radio or tuner?

Definitely, unless you're an electronics expert.

My radio has a small jack labeled MX on the back panel. Does this mean I can use it for MX stereo?

Probably the chances are good that you can convert to MX by simply buying an adapter and plugging it into the MX jack. But check before you buy. Some sets that have MX jacks on the back, while theoretically adaptable, would be more trouble and expense than they're worth.

I bought an MX adapter for stereo broadcasts in my area several years ago. Will I be able to use it when MX starts again?

Chances are against it. Over the past several years, the FCC let a handful of stations around the country broadcast experimental multiplex stereo programs to work out the bugs and also to test the various proposed systems before authorizing MX on a nation-wide basis. If you bought

[*Continued on page* 145]

Career-minded William A. Shaw of Royal Oak, Michigan, asked...

"What should I do with my next few years?"

This question faces every young man completing high school. For it is in these years that he must start his career. Last year Bill Shaw answered his question by joining the U.S. Air Force. This year some 100,000 young Americans will take the same forward step.

Why?

First of all there is the sense of pride that goes with serving on the nation's defense team. Then there is a more compelling reason. In the years to come there will be positions of increasing responsibility opening for trained and experienced men. This is what the Air Force offers – training and experience in missile and airplane maintenance, radio, radar, administration, air police work and a host of other specialities.

For full details on the many opportunities open to you as an airman, just fill out and mail this coupon.

FORMER SERVICEMEN: The Air Force offers interesting opportunities to veterans of U.S. armed forces. See your Air Force Recruiter.

U.S. Air Force

Airman 2C Shaw is now an electronics specialist at a base in England. He has completed a technical training course at Keesler Air Force Base, Mississippi. He is learning a valuable skill in his first year in the Air Force.

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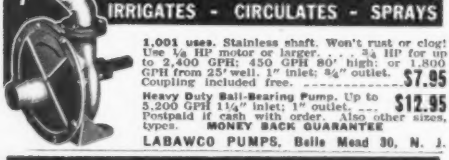

BRACELETS BAFFLE BANGS

ARROW points to bracelet grounding wrist

METAL wristlets that ground dangerous static electricity are the ultimate protective devices guarding technicians at the Picatinny Arsenal, Dover, N. J., against accidental explosions.

Low-energy initiators (tiny explosive fuses used in missile warheads) that the workers handle are so sensitive that a person running a comb through his hair can create enough static electricity to explode one of them. Even electrical waves emanating from telephones, radar or the generators of passing cars trigger these fuses. Less than 1,000 ergs are required to activate them. This is about the energy that is created when you slide across the seat of your car!

So the first thing a technician does when he sits down at his laboratory bench is to snap on his wristlet and connect the lead to the ground wire. Then he knows that any electrical current generated by his body will be safely grounded.

To guard further against atmospheric and other electrical influences, the entire arsenal is enclosed in wire mesh to ground it; floors are of special conductive rubber that is also carefully grounded; electrical fixtures are specially designed to trap and ground any stray electrical currents; and all workers must wear a particular type of conductive shoe and cotton clothing because other materials might build up static.

These precautions—particularly the metal bracelet—have proven their worth. During the four years the man-grounding wristlet has been in use, no accidental explosions have occurred at the arsenal.—*Charles Coleman*

Multiplex Stereo

[*Continued from page* 142]

an adapter to listen to those early broadcasts you're probably out of luck now.

Can I hear MX in my area yet?

To find out, call all the FM stations in your neighborhood and ask what their plans are.

Suppose I don't buy an MX converter for my FM tuner or radio—can I hear MX programs?

If you listen on a regular radio not adapted for MX, both the right and left channels are blended and you hear the full sound.

I understand several companies are involved in a dispute over who owns the patent rights for the system of multiplexing now on the air. Does this mean the system may be changed again?

Zenith, General Electric and Crosby Electronics all claim credit for developing the system. The battle may have to go to court. But the FCC has decided on the system to be used and the fight is simply over who will collect royalties.

No station plans to broadcast multiplex stereo in my area in the near future. If I buy a regular tuner or radio now, can I be sure of being able to convert later when stations do begin broadcasting MX?

Yes, as long as you make sure the set you buy is convertible. As a practical matter some FM sets are not. Check before you buy.

Any drawbacks to MX?

Yes, one minor one. It takes power to squeeze two complete right and left channel signals into the space formerly reserved for one. This extra power comes from the power which usually helps shove the signal out to the limits of its range. This means the multiplexed signal won't travel quite as far as the regular FM signal. If you live anywhere near the station—within 50 miles as a rough guess—you won't be affected. If you have any problem now receiving a strong, clean signal, it may get worse.

Is MX stereo worth the money?

If you tune in to music mostly as a background while your mind is on other things—no. If, on the other hand, you're an ardent music lover, the answer is an emphatic *Yes!* •

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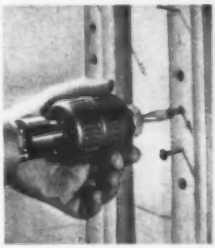

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3. Your fingers act as a clutch . . . starting, stopping action instantly. Simple and safe . . . no blisters.

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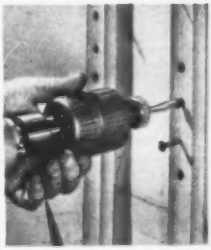

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Field-Dress A Deer

[*Continued from page* 90]

game from the time it's killed to the time it's packed away in your home freezer. So here goes:

Step No. 1 begins when you sight your game: shoot only when you have a deadly bead on your target. A deer that is gut shot or lung shot or that has been wounded for hours is certain to have a strong gamy taste regardless of how well you dress, hang and butcher it. So put the cross hairs of your sights on the right spot for a clean kill. A neck shot is your best bet.

Once you have downed your game, act fast. What you do during the first 30 minutes is important. However, don't immediately rush up to your prize. Stand at a safe distance for several minutes with your rifle at the ready. Hunters have been seriously wounded by a deer they thought was dead. If it doesn't move after five minutes, approach cautiously.

Bleed your game immediately. Swing the carcass around until neck and shoulders are lower than the rump. If the land is flat, fasten your pocket game hoist to a tree and raise the rump a foot off the ground.

Pointing the blade of your knife toward the tail, insert it four or five inches into the flesh at the spot where the base of the neck joins the chest in front of the breastbone. With a sharp twist of the blade sever the large arteries in the neck and let the carcass bleed.

Once bled, field dress your kill immediately. Next to blood your worst enemy is body heat, which forms gases and starts the fermentation processes. Dressing gets rid of this destructive body heat and also reduces the weight of the beast by at least one-third.

To dress, swing the deer around so the rump is downhill with the carcass on its side, its belly on the diagonal. If on flat land, tie the nylon rope of your midget hoist to the head or antlers to elevate the head and shoulders.

Lift the hide with the fingers of your left hand at a point where the breast ends. Carefully cut through the hide and belly muscle until you have a shallow slit about four inches long. With the palm of your left hand upwards, work two fingers into the incision and spread it apart. Then lift up, pulling the hide away from the stomach and intestines. Cut straight downward toward the tail, holding back the intestines with the back of your hand so as not to nick them (the meat will be spoiled if the contents of the intestines and stomach are spilled out onto it).

Cut down the center line to within six inches of the tail, then slice a wide circle

[*Continued on next page*]

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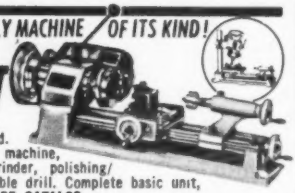

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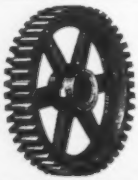

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around the sex organs. Then cut the hide in a complete circle around the anus. The cut must be deep enough to permit you to securely tie up the opening of both sex organs and anus. Now pull out the large intestines. The anus and sex organs will roll out with it onto the ground. Next pull out the small intestine and the stomach.

Cut the diaphragm (the thin muscle separating the chest from the stomach cavity) and reach deep into the chest cavity with your knife. Cut the windpipe ahead of the lungs and also the tube leading from throat to stomach. This tube is the gullet and spoils quickly. Now roll out the heart, liver, lungs, gullet and windpipe.

At this point take your hatchet and split the bone where the hind legs come together. Clean the body cavity, wiping it dry with leaves or moss. Cut off the meat around the bullet wound and any other meat that appears bruised.

As soon as you have dressed your deer, tag it as required by law. Then prop open the body cavity with two sticks so air can circulate through it freely.

Hoist the carcass by the head along the north side of a conifer tree and clear of the ground by at least two feet until transportation arrives. The hairs on a deer's hide slant toward the tail and will shed rain and snow.

In many areas large green or black flies known as "blow flies" lay eggs or maggots on meat and spoil it quickly. These flies appear almost as soon as your deer is downed and to go to work on the meat while it is still warm and moist. To foil these pests coat all the carcass not protected by hide with black pepper. Pepper repels flies and improves the meat. Another method is to cover the entire carcass with a cheese cloth bag tied securely at the neck.

Unless you are bringing your deer out of the woods immediately, skin and quarter it and wrap the quarters in burlap bags. Take the venison to a good butcher and have him cut to size for your home freezer.

Follow these simple rules from the moment you sight your deer till the meat goes into your own deep freeze and you should have a lot of sweet, tender wild meat that will delight your family and your friends this winter. •

THE MAGIC MOSHOLU

DO you flip when you have to convert from liters to psi, from inches to troy weight, from rpm to pounds sterling? I'm with you. If you think something should be done about all the confusing and conflicting systems of weights and measures, consider the McMichael Universal Mosholu Table (McMUMT). With this system you measure everything from the density of cotton candy to the volume of mother love in *mosholus*.

Why mosholus? Well, the newer units of measure are all named after scientists—watt, ampere, volt, etc. So how does mcmichael grab you? On the other hand, mosholu has something. "Mosholu, mosholu, mosholu onward" sing the motorists as they mush along the Mosholu Parkway, a lane in the Bronx.

I think we can now go on to the advantages of the McMUMT. Let's say you're filling out an insurance application—one of the real drags of our time. But with the McMUMT propped up in front of you, where is the old familiar brain strain? You put yourself down as 41 mosholus old and 68 mosholus tall. Weight: 165 mosholus. Shoe size: 10½ mosholus D.

Your car engine develops 310 mosholus, has a 0-60 mosholus time of 8.4 mosholus. You can buy it on easy terms—95 mosholus per mosholu for only three mosholus.

Camera lenses are rated at m:3.5 or m:2.8, etc. Phonographs are available in 16, 33⅓, 45 and 78 mpm. Records listed at 5.98 mosholus go for 3.98 mosholus at discount houses.

Your grandchildren attend school for 12 mosholus at public expense but the next four mosholus, if any, are paid out of trust funds, scholarships, summer jobs. School starts at 0800 mosholus, winds up at 1430 mosholus so the teachers can set their hair and get to the PTA by 2000 mosholus. While parents attend the PTA, kids watch 77 Mosholu Strip on Mosholu 4.

Transitional problems: does Peter Piper pick a peck of pickled peppers, or does Mickey Merkle mash a mosholu of mangled marshmallows? When they catch you doing 65 mpm in a 35 mpm zone, will you be less outraged? Will your lot be better when you pay 5.50 mosholus for a fifth of a mosholu of 80-mosholu gin?

But that will pass in time. Think of the benefits. Try thinking in terms of mosholus for 24 mosholus and see how much less complicated *your* life becomes!—*Jim McMichael.* *(Editor's note: the great ideas of history have all had simplicity at their core—but probably never to such a degree.)*

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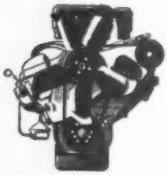

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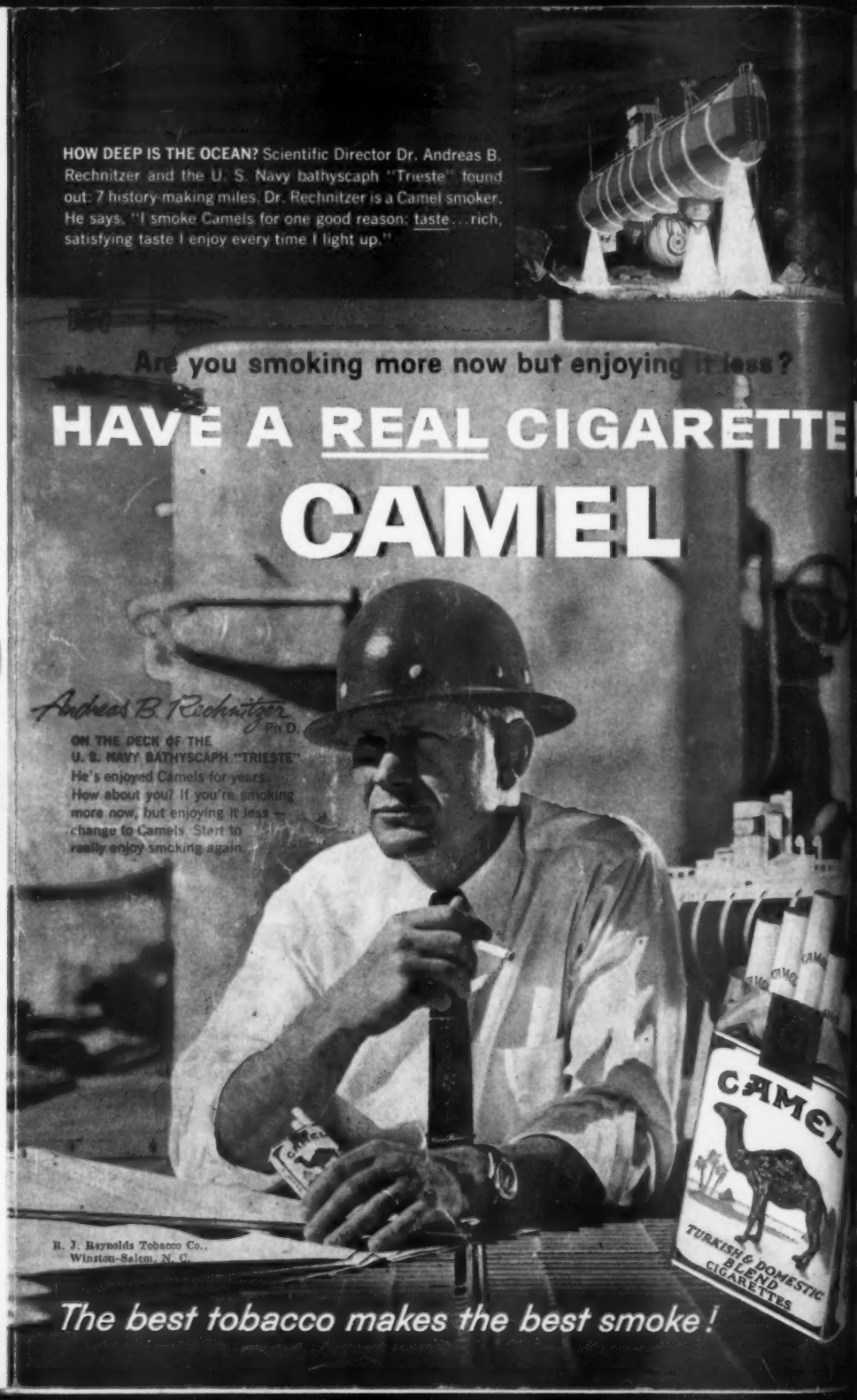
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